

TDRR 02928

DESCRIPTION AND REQUIREMENTS

FOR

PROCESS FOR

CASTING WITH 2850 FT

EPOXY RESIN SYSTEM

DESCRIPTION AND REQUIREMENTS FOR PROCESS FOR CASTING
WITH 2850 FT EPOXY RESIN SYSTEM.

1. The purpose of this document is to establish the procedure for casting electronic components or assemblies with a low thermal expansion coefficient and low shrinkage epoxy resin system. This document is intended for use in the APOLLO Guidance and Navigation Equipment program.

Record of Revisions

Revision Letter	TDRR Number	Pages Revised	Approvals		Date
			MIT	NASA	

This specification consists of page i through iv and 1 through 5 inclusive.

W. Kupper 5 Sep 63
MIT INSTRUMENTATION LABORATORY

William J. Swartz 9/15/63
NASA/MSC APPROVAL

ii

DESCRIPTION AND REQUIREMENTS

FOR

PROCESS FOR

CASTING WITH 2850 FT

EPOXY RESIN SYSTEM

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DESCRIPTION AND REQUIREMENTS

FOR

PROCESS FOR

CASTING WITH 2850 FT

EPOXY RESIN SYSTEM

1. SCOPE

1.1 Scope. This document covers the procedure for casting electronic assemblies and components with a low thermal expansion coefficient and low shrinkage epoxy resin system.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date for invitation for bids, forms a part of this specification to the extent specified herein.

SPECIFICATIONS

Federal -

O-A-51	Acetone, Technical
B-B-F-671	Freon, T. F.

DRAWINGS

Apollo G & N Specifications

1006904	Epoxy Resin
1010306	Curing Agent
1006834	Silicone Rubber Compound
1006835	Curing Agent

iv

1

APOLLO
G & N SPECIFICATION
ND 1002183
15 August 1963

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APOLLO
G & N SPECIFICATION
ND 1002183
15 August 1963

PREPARED BY	TITLE	DATE
<u><i>W. O. W. Batts</i></u> RAYTHEON	ENGINEER	<u><i>27 August 1963</i></u>

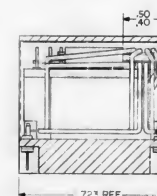
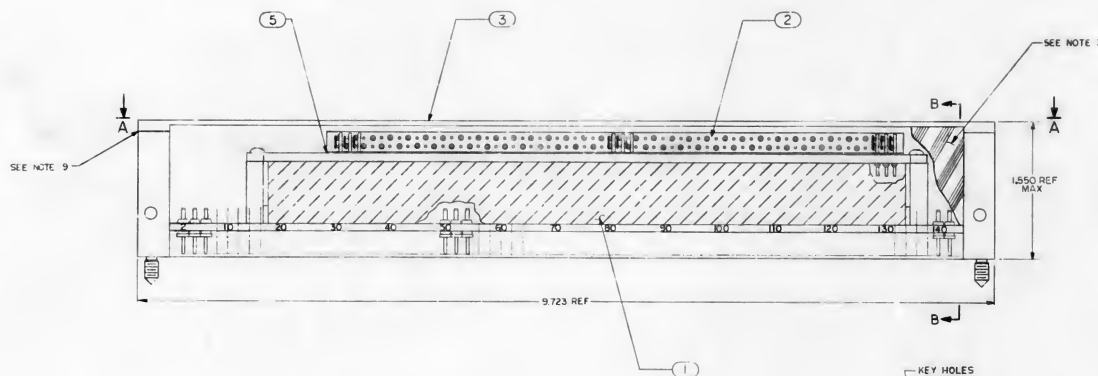
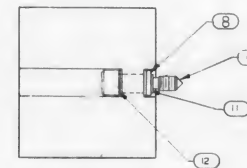
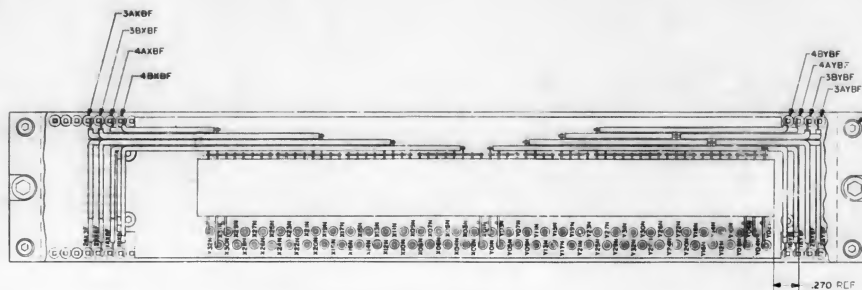
EXAMINED BY	TITLE	DATE
<u><i>J. P. Arizaga</i></u> RAYTHEON	MANAGER OF TECHNICAL SERVICES	<u><i>29 Aug '63</i></u>

APPROVED BY	TITLE	DATE
<u><i>K. Whit</i></u> RAYTHEON	MANAGER OF DEVELOPMENT ENGINEERING	<u><i>27 AUG 63</i></u>

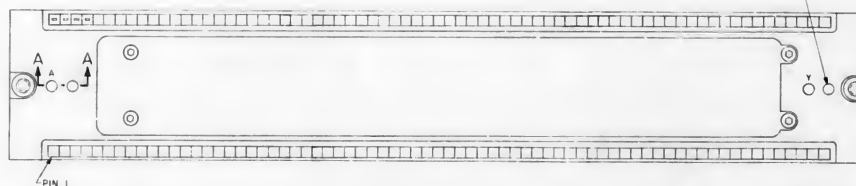
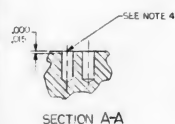
APPROVED BY	TITLE	DATE
<u><i>Eldon C. Hall</i></u> MIT/IL	<i>MIT</i>	<u><i>30 Aug 63</i></u>

APPROVED BY	TITLE	DATE
<u><i>[Signature]</i></u> MIT/IL	<i>MIT</i>	<u><i>8/30/63</i></u>

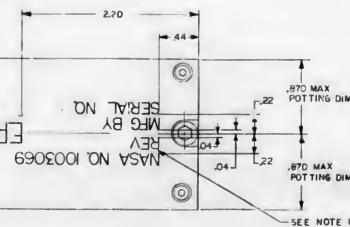
APPROVED BY	TITLE	DATE



SECTION B-B



ERASABLE MEMORY MODULE B9



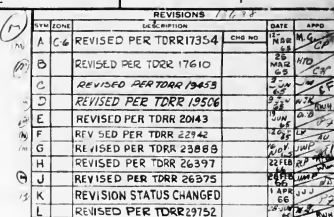
- NOTES—
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-0-70327
 2. WELD PER ND1002005
 3. ENCASE PER ND1002036 INDICATED AREA ONLY
 4. FILL KEYHOLE MARKED A.Y. USING THERMALLY CONDUCTIVE RESIN PER ND1000185
 5. A.R. DENOTES AS REQUIRED
 6. MARK .250 HIGH WHITE PER ND1002019 AND ND1002122 TYPE II CLASS I
 7. MARK .025 HIGH WHITE PER ND1002019 AND ND1002122 TYPE II CLASS I, SERIALIZE PER ND1002023
 8. APPLY FPD NO. 1 TO INTERFACE PRIOR TO ASSY

VIEW A A

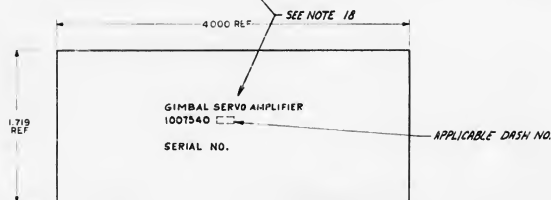
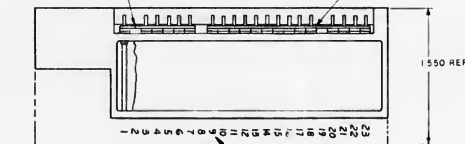
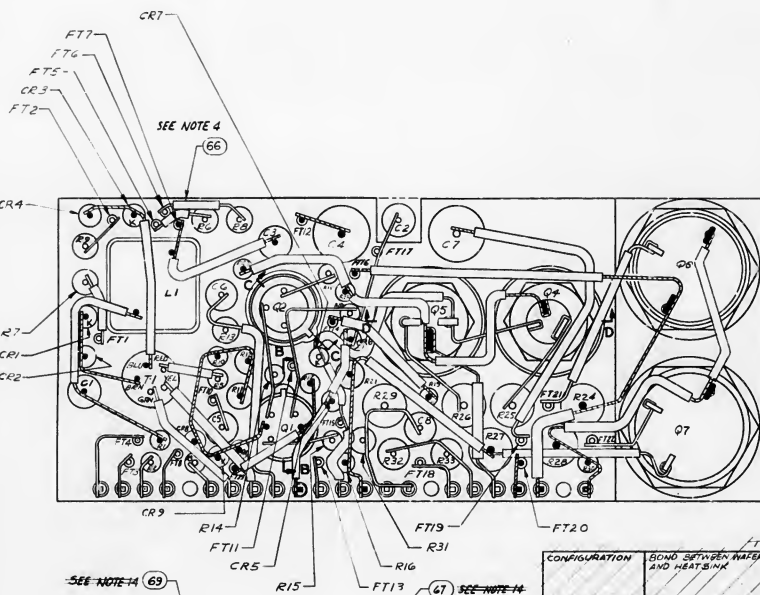
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A	CHANGED PER TORR 0128	11/1/68	11/1/68	
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C	REVISED PER TORR 0128	11/1/68	11/1/68	
D	REVISED PER TORR 0128	11/1/68	11/1/68	
E	REVISED PER TORR 0128	11/1/68	11/1/68	
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M	REVISED PER TORR 0128	11/1/68	11/1/68	

QTY	UNIT	DESCRIPTION	DATE	BY	CHK
1	PCB	100061	11/1/68	11/1/68	
1	PCB	100062	11/1/68	11/1/68	
1	PCB	100063	11/1/68	11/1/68	
1	PCB	100064	11/1/68	11/1/68	
1	PCB	100065	11/1/68	11/1/68	
1	PCB	100066	11/1/68	11/1/68	
1	PCB	100067	11/1/68	11/1/68	
1	PCB	100068	11/1/68	11/1/68	
1	PCB	100069	11/1/68	11/1/68	
1	PCB	100070	11/1/68	11/1/68	
1	PCB	100071	11/1/68	11/1/68	
1	PCB	100072	11/1/68	11/1/68	
1	PCB	100073	11/1/68	11/1/68	
1	PCB	100074	11/1/68	11/1/68	
1	PCB	100075	11/1/68	11/1/68	
1	PCB	100076	11/1/68	11/1/68	
1	PCB	100077	11/1/68	11/1/68	
1	PCB	100078	11/1/68	11/1/68	
1	PCB	100079	11/1/68	11/1/68	
1	PCB	100080	11/1/68	11/1/68	
1	PCB	100081	11/1/68	11/1/68	
1	PCB	100082	11/1/68	11/1/68	
1	PCB	100083	11/1/68	11/1/68	
1	PCB	100084	11/1/68	11/1/68	
1	PCB	100085	11/1/68	11/1/68	
1	PCB	100086	11/1/68	11/1/68	
1	PCB	100087	11/1/68	11/1/68	
1	PCB	100088	11/1/68	11/1/68	
1	PCB	100089	11/1/68	11/1/68	
1	PCB	100090	11/1/68	11/1/68	
1	PCB	100091	11/1/68	11/1/68	
1	PCB	100092	11/1/68	11/1/68	
1	PCB	100093	11/1/68	11/1/68	
1	PCB	100094	11/1/68	11/1/68	
1	PCB	100095	11/1/68	11/1/68	
1	PCB	100096	11/1/68	11/1/68	
1	PCB	100097	11/1/68	11/1/68	
1	PCB	100098	11/1/68	11/1/68	
1	PCB	100099	11/1/68	11/1/68	
1	PCB	100100	11/1/68	11/1/68	

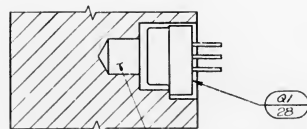
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NEXT ASSY USED ON		FINAL TEST		NESA APPROVAL AND DATE		NESA DRAWING NO	
APPLICATION				COOL DOWN NO E 1003074		SCALE WT SHEET 2 OF 2	



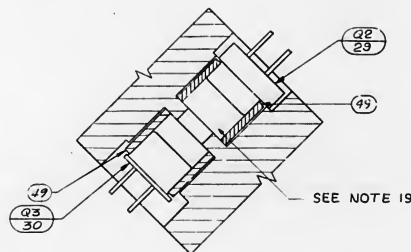
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|----------------------------|--|--|--|------------------------|--|-------------------------|--|
| QUANTITY AND UNIT | | UNIT | | LBS | | OF PRINTS AND MATERIALS | |
| UNLESS OTHERWISE SPECIFIED | | INSTRUMENTATION LAB | | MANNED | | SPACECRAFT CENTER | |
| UNLESS OTHERWISE SPECIFIED | | INSTRUMENTATION LAB | | UNMANNED | | HOUSTON TEXAS | |
| FRACTIONS, TENSILES ANGLES | | DRAWN <i>W. J. H. 10/10/60</i> | | GIMBAL SERVO AMPLIFIER | | MODEL ASSY | |
| + 001.2 005 + | | CHECKED <i>W. J. H. 10/10/60</i> | | | | | |
| - 001.2 02 - | | APPROVED <i>W. J. H. 10/10/60</i> | | | | | |
| DO NOT SCALE THIS DRAWING | | APPROVAL <i>W. J. H. 10/10/60</i> | | | | | |
| MATERIAL | | NASA APPROVAL <i>W. J. H. 10/10/60</i> | | CODE SHEET NO | | SIZE | |
| | | | | 80230 | | E 1007540 | |
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| 2 | | | | | | 1 | |



MARKING VIEW
SCALE - 2:1

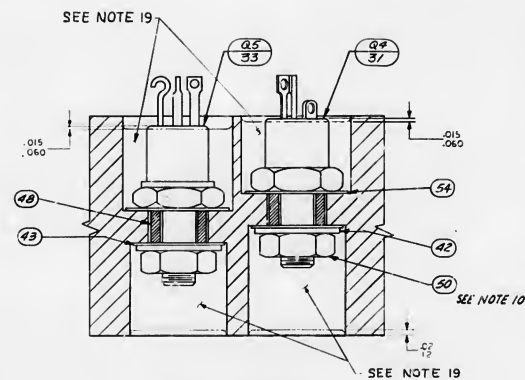
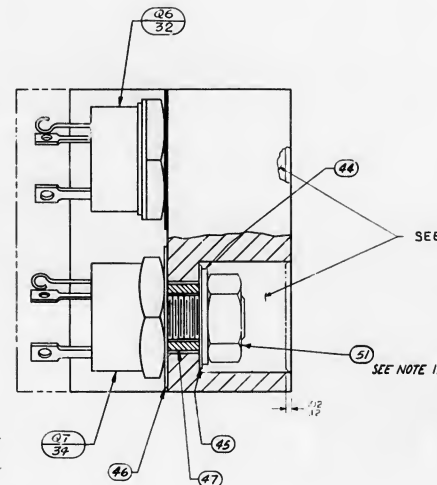


PARTIAL SECTION B-B



PARTIAL SECTION C-C

CONFIGURATION	BOND BETWEEN WAFER AND HEAT-SINK	TOP OF WAFER	HEAT-SINK FROM CONTACT SURFACE ADJACENT TO HEAT-SINK EXTERNAL SURFACE
WAFER AND FLAT HEAT-SINK	100% OF AREA 1/2 FROM EXTERNAL HEAT-SINK SURFACE 80% OF AREA 1/2 FROM EXTERNAL HEAT-SINK SURFACE	100% OF AREA 25 FROM EXTERNAL MODULE SURFACE	N/A
WAFER AND FLAT HEAT-SINK SURFACE	CORNER FILLET AND VERTICAL SURFACE TO WITHIN .03 ± .03 OF EXTERNAL SURFACE	100% OF AREA 25 FROM EXTERNAL MODULE SURFACE	N/A
HEAT-SINK FROM CONTACT SURFACE PERIMETER	N/A	N/A	1.25 MIN WIDTH OF TOTAL AVAILABLE ON 92% OF PERIMETER TO WITHIN .03 ± .03 OF EXTERNAL EDGE

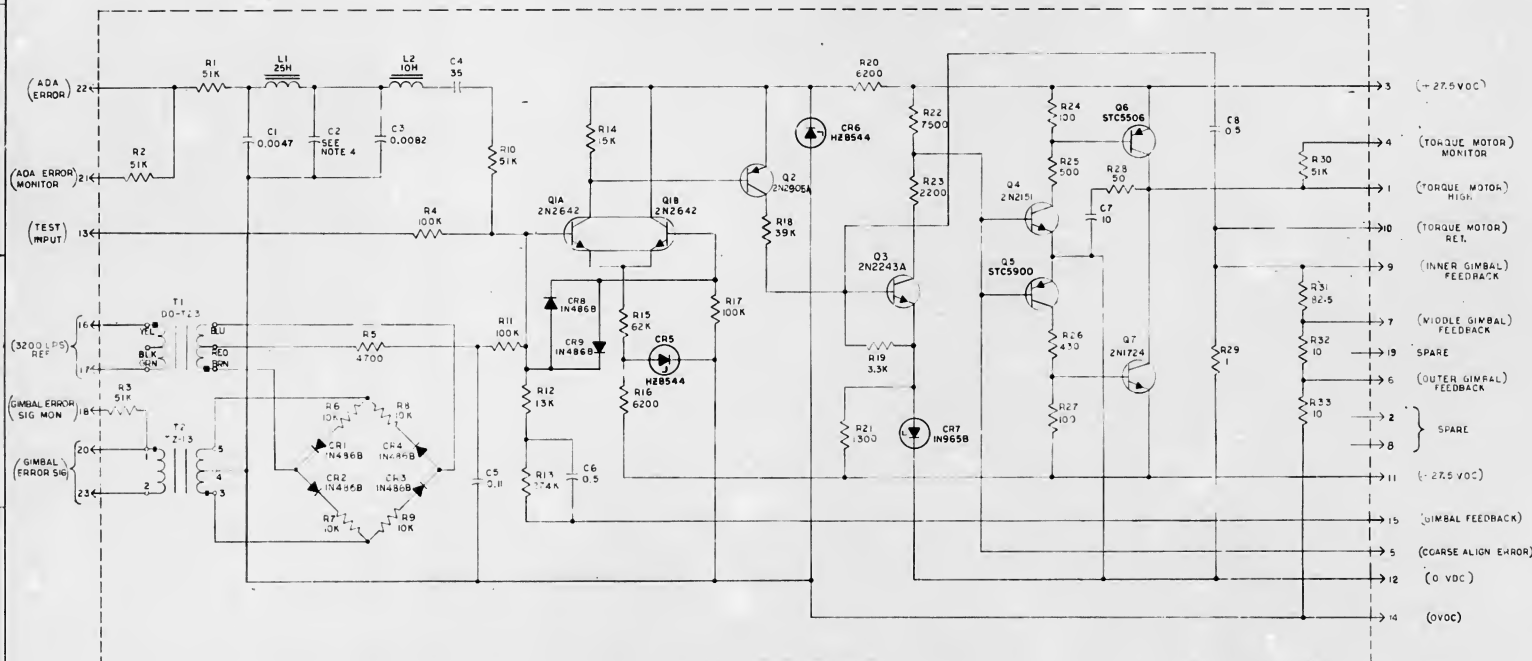


PARTIAL SECTION D-D

REV	DESCRIPTION	DATE	APPD
A	REVISED PER TDR-17354	10 MAR 63	CP
B	REVISED PER TDR 17610	10 MAR 63	CP
C	REVISED PER TDR 19453	10 MAR 63	CP
D	REVISED PER TDR 19506	10 MAR 63	CP
E	REVISED PER TDR 20143	10 MAR 63	CP
F	REVISED PER TDR 22742	10 MAR 63	CP
G	REVISION STATUS CHANGED	10 MAR 63	CP
H	REVISION STATUS CHANGED	10 MAR 63	CP
I	REVISION STATUS CHANGED	10 MAR 63	CP
J	REVISION STATUS CHANGED	10 MAR 63	CP
K	REVISED PER TDR 27430	10 MAR 63	CP
L	REVISION STATUS CHANGED	10 MAR 63	CP

UNITS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS BYTES	W.T. INSTRUMENTATION LAB TEMP. 80°F ± 5°F ORIENT. 0°/90°/180°/270° APPROVAL: [Signature] DO NOT SCALE THIS DRAWING	MARKED SPACECRAFT CENTER HOUSTON TEXAS
MATERIAL NESA APPROVAL: [Signature] CONTRACT NAS 9-481	CODE 80230 SIZE E SCALE 2:1	GIMBAL SERVO AMPLIFIER MODULE ASSY
SHEET 2 OF 2		

REVISIONS 1368			
SYM	DESCRIPTION	DATE	APPROVED
A	REVISED PER TDRR 17610	28 MAR 66	HTO CA
B	REVISED PER TDRR 29751	28 JUN 66	PLT



C2		
1010264-1		.0010
	-2	.0012
	-3	.0015
	-4	.0018
	-5	.0022
	-6	.0027

NOTES:

- 1-INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-0-70327
- 2-UNLESS OTHERWISE NOTED RESISTOR VALUES ARE IN OHMS
- 3-UNLESS OTHERWISE NOTED CAPACITOR VALUES ARE IN MICROFARADS
- 4-VALUE TO BE DETERMINED BY ELECTRICAL TEST, COMPONENT TO BE SUPPLIED FROM TABLE

REF ID	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	006750-73	RESISTOR	51K	±2%	1/4W
R2	-	73	51K	±1%	1/4W
R3	-	73	51K	±1%	1/4W
R4	-	80	100K	±1%	1/4W
R5	-	80	47.5K	±1%	1/4W
R6	1010354-43	-	10K	±1%	1/8W
R7	-	-	10K	±1%	1/8W
R8	-	-	10K	±1%	1/8W
R9	-	-	10K	±1%	1/8W
R10	006750-73	-	51K	±2%	1/4W
R11	1010354-43	-	100K	±1%	1/8W
R12	-	485	1.5K	±1%	1/4W
R13	-	719	27K	±1%	1/4W
R14	006750-73	-	15K	±2%	1/4W
R15	-	75	62K	±1%	1/4W
R16	-	51	620K	±1%	1/4W
R17	-	51	620K	±1%	1/4W
R18	-	70	39K	±1%	1/4W
R19	-	44	6.2K	±1%	1/4W
R20	-	-	6.2K	±1%	1/4W
R21	1006760-35	-	130K	±1%	1/2W
R22	006750-53	-	750K	±1%	1/4W
R23	-	-	270K	±1%	1/4W
R24	1010278-39	-	10K	±5%	1/2W
R25	1010399-31	-	10K	±5%	3W
R26	1010389-47	-	430	±1%	3W
R27	1010278-39	-	10K	±5%	1/2W
R28	7100399-59	-	20	±15%	5W
R29	1010389-54	-	31K	±1%	3W
R30	006750-73	-	51K	±2%	1/4W
R31	1010364-43	-	85K	±1%	1/4W
R32	-	766	10K	±5%	1/10W
R33	1010377-66	-	10K	±5%	1/10W

C1	1010264 - 9	CAPACITOR	0.0047	±5%	200VDC
C2	-		SEE NOTE 4		
C3	-12		.0082		
C4	1010320 - 11				25 VDC
C5	1010279 - 220		.11		35VDC
C6	1010279 - 9		0.3		6VDC
C7	1010320 - 6		10		50VDC
C8	1010279 - 226		0.5	±10%	35VDC

CR1	1010392-1	DIODE	IN486B	250MW
CR2	1010392-1			
CR3	1010392-1			
CR4	1010392-1			
CR5	1010372-15		HZ8544	200MW
CR6	1010372-15		HZ8544	200MW
CR7	1010392-9		IN486B	400MW

C88	1010392-1		IN486B	250MW
C89	1010392-1		IN486B	250MW
G1	1010252-1	TRANSISTOR	2N2642	
Q2	1008813-1		2N2905A	
Q3	1010270		2N2243A	
Q4	1010269-1		2N2151	
Q5	1010437		5TC3903	
Q6	1010271		5TC5506	

DWG FOR REFERENCE:
GIMBAL SERVO AMPLIFIER MODULE ASSY 1007540

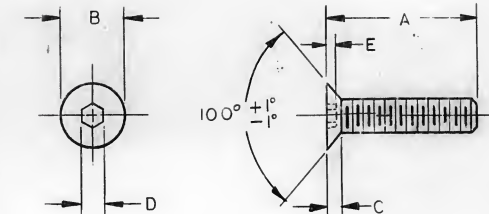
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NOTICE - WHEN GOVERNMENT DRAWINGS SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT HAS FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REQUIREMENTS:

- 1 GENERAL:
 - A INTERPRET DRAWING SYMBOLS, ABBREVIATIONS AND REFERENCE DESIGNATIONS IN ACCORDANCE WITH GOVERNMENT STANDARDS SPECIFIED IN MIL-D-70327.
 - B SUPPLIER SHALL CONFORM TO QUALITY ASSURANCE PROVISIONS SPECIFIED IN ND 1015404, CLASS 3.
 - C THREADS SHALL BE PER MIL-S-7742 AND SCREWS SHALL BE BURR FREE.
 - D UNITS SHALL BE CAPABLE OF MEETING APPLICABLE REQUIREMENTS OF FF-S-86
- 2 INSPECTION AND ACCEPTANCE:
 - A MATERIAL: 18-8 OR 16-18 CORROSION RESISTANT STEEL, (75,000 PSI MIN. ULT. TEN. STR.)
 - B FINISH: PASSIVATE PER MIL-F-14072, E300.
 - C DIMENSIONS: AS SHOWN.

NASA PART NUMBER	THREAD SIZE	DIMENSIONS					NASA PART NUMBER	THREAD SIZE	DIMENSIONS				
		A ±.015	B	C MAX	D +.001 -.000	E			A SEE NOTE 1	B	C MAX	D +.001 -.000	E
1	2-56NC-3A	.187	.172	.036	.035	.030	36	8-32NC-3A	.312	.300	.072	.078	.062
2		.250	.156			.020	37		.375	.332			.057
3		.312					38		.437				
4		.375					39		.500				
5		.437					40		.562				
6		.500					41		.625				
7							42		.750				
8							43		.875				
9							44		1.000				
10							45		1.125				
11							46		1.250				
12	4-40NC-3A	.187	.225	.049	.050	.040	47		1.500				
13		.250	.207			.035	48		1.750				
14		.312					49						
15		.375					50						
16		.437					51	10-32NF-3A	.375	.348	.083	.094	.072
17		.500					52		.437	.385			.067
18							53		.500				
19							54		.562				
20							55		.625				
21							56		.750				
22							57		.875				
23	6-32NC-3A	.187	.279	.061	.062	.050	58		1.000				
24		.250	.257			.045	59		1.125				
25		.312					60		1.250				
26		.375					61		1.500				
27		.437					62		1.750				
28		.500					63		2.000				
29													
30													
31													
32													
33													
34													
35													



PROCURE ONLY FROM APPROVED SOURCES LISTED ON ND 1002034 FOR THIS DRAWING.

NOTE 1: LENGTH TOLERANCE: UP TO 1", INCL.: ± .015
OVER 1" TO 2", INCL.: +.031
-.015

QTY RECD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB CAMBRIDGE MASS CONTRACT 497				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN <i>Kesselt</i> DATE <i>14 JUN 63</i> CHECKED <i>Wilson</i> <i>17 June 63</i> APPROVAL <i>James</i> <i>14 Aug 63</i> A.B.				SCREW, FLAT HEAD, 100° HEX SOCKET			
APPROVAL				SPECIFICATION CONTROL DRAWING			
NASA APPROVAL <i>W. J. Schmitt</i> <i>8/17/63</i>				CODE IDENT NO.		SIZE	
MIT APPROVAL <i>W. J. Schmitt</i> <i>8/17/63</i>				C		1010630	
SCALE NONE				WT		SHEET 1 OF 1	

NOTICE - OTHER GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION. THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR ENDORSEMENT AS IF ANY HADDER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERE TO.

1010812

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	INITIAL RELEASE CLASS A PER TDRR 14097	11-12-64	WIK
A	REVISED PER TDRR 18493	23 APR 65	KCH

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS SPECIFIED IN ND 1015404, CLASS 2.

2. INSPECTION AND ACCEPTANCE:

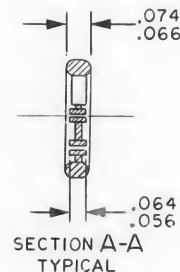
A. MECHANICAL REQUIREMENTS:

(1) MATERIAL: SILICONE RUBBER, GENERAL PURPOSE PER AMS 3301.

(2) PACKING:

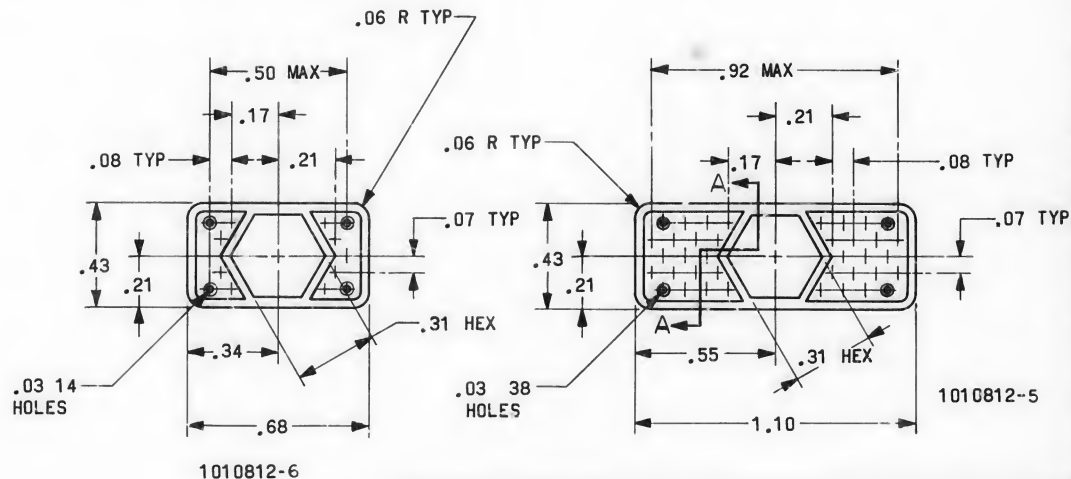
- PRESERVATION, PACKAGING, AND PACKING SHALL BE PER ND 1002215 CLASS I, CODE 3.

(3) MARKING: PACKAGES AND SHIPPING CONTAINERS SHALL BE MARKED WITH THE DRAWING NUMBER, DASH NUMBER AND REVISION LETTER.



NOTES:

- FOR USE AS INTERFACIAL SEAL ON DRAWINGS 1010825, 1010815, 1010818, 1010819, 1010820, 1010823 AND 1010859

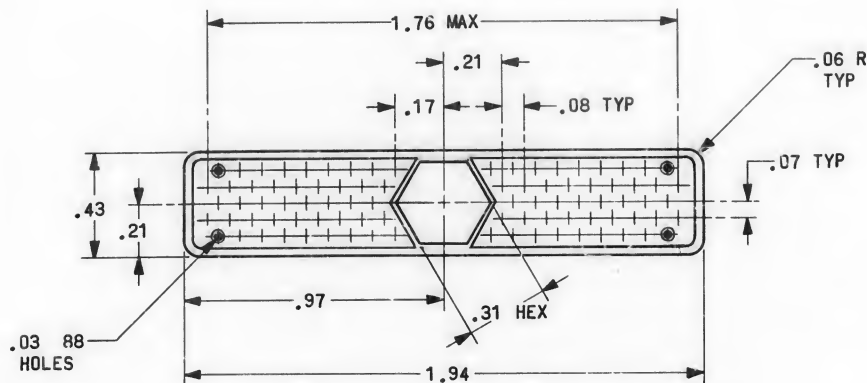


PROCURE ONLY FROM APPROVED SOURCES LISTED ON ND 1002034 FOR THIS DRAWING.

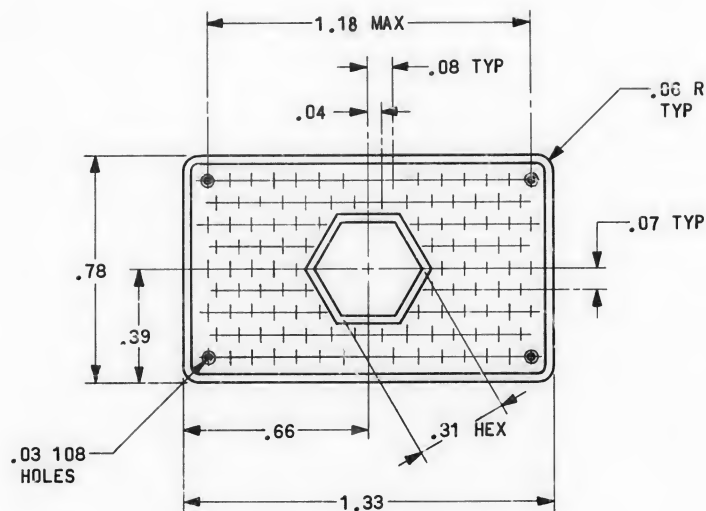
QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB CAMBRIDGE MASS CONTRACT NAS 9-497				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN <i>Benider</i> 15 OCT 64 CHECKED <i>Ed Foster</i> 16 OCT 64 APPROVAL <i>W. J. R. H.</i> 11-12-64				SEAL, RUBBER SPECIAL SHAPED SECTION SUBMINIATURE SPECIFICATION CONTROL DRAWING			
NASA APPROVAL <i>W. J. R. H.</i> 11-12-64				CODE IDENT NO. SIZE 80230 C		NASA DRAWING NO. 1010812	
MIT APPROVAL <i>W. J. R. H.</i> 11-12-64				SCALE —		SHEET 1 of 3	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		
FRACTIONS	DECIMALS	ANGLES
±	± .02	±
DO NOT SCALE THIS DRAWING		
MATERIAL		
SEE REQUIREMENTS		
HEAT TREATMENT		
NONE		
FINAL FINISH		
NONE		
NEXT ASSY	USED ON	
APPLICATION		

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY STATED GOVERNMENT REQUIREMENT OPERATION, THE UNITED STATES GOVERNMENT HEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE RELIED UPON BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSES THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.



1010812-4



1010812-3

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
		TOLERANCES ON		
		FRACTIONS	DECIMALS	ANGLES
		±	±	±
		DO NOT SCALE THIS DRAWING		
		MATERIAL		
		HEAT TREATMENT		
		FINAL FINISH:		
NEXT ASSY	USED ON			
APPLICATION				

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS Contract NAS 9-497		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>Bender</i> 16-DEC-64 CHECKED <i>Ed Foster</i> 16 OCT 64 APPROVAL <i>W J Riker</i> 11/1/64		SEAL, RUBBER SPECIAL SHAPED SECTION SUBMINIATURE	
NASA APPROVAL <i>W J Riker</i> MIT APPROVAL <i>W J Riker</i> 12/1/64		CODE IDENT NO. 80230 SCALE	SIZE C WT
		SHEET 2 of 3	

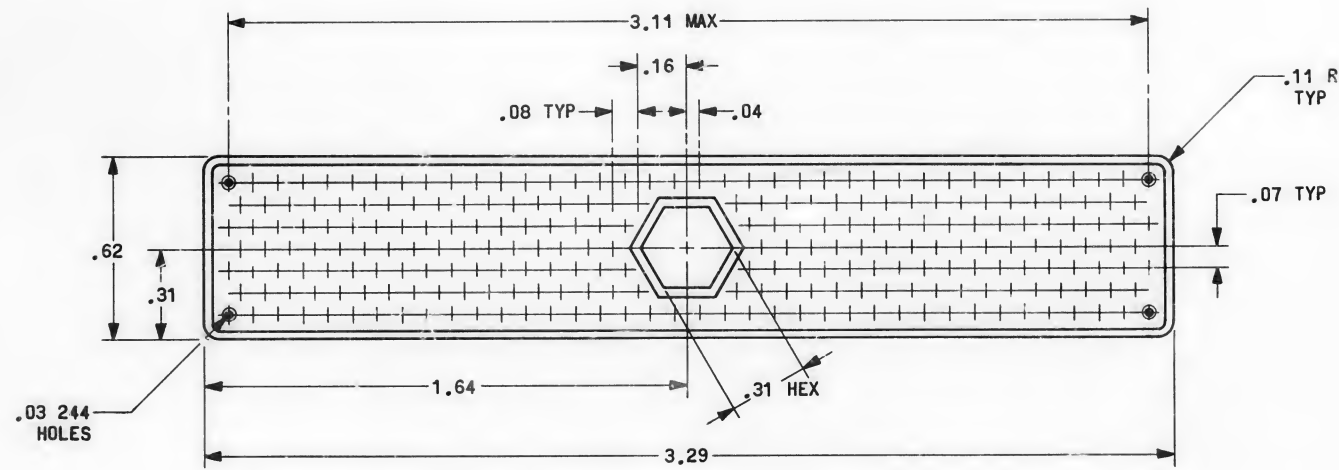
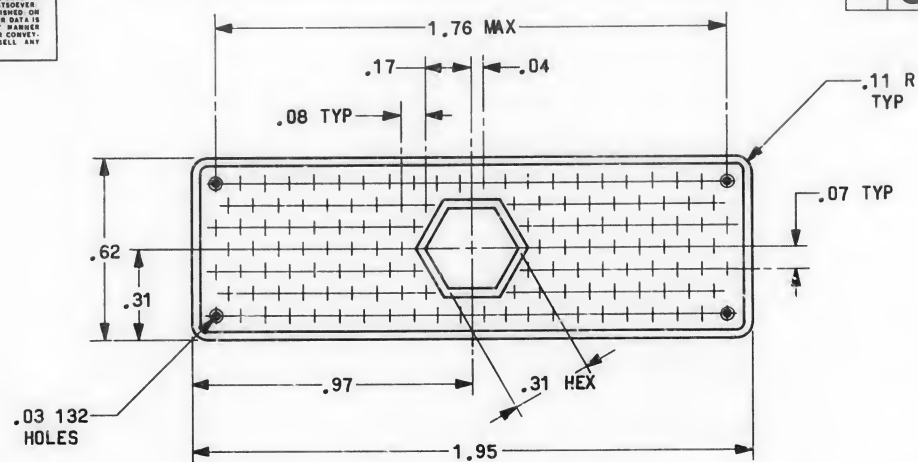
1010812

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
-	INITIAL RELEASE CLASS A PER TDRR 14097	11-15-64	WJ
A	REVISED PER TDRR 18493	23 APR 65	WJ

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONFERRING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1010812

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
-	INITIAL RELEASE CLASS A PER TDRR 11-12-64	11-12-64	WK
A	REVISED PER TDRR 18493	23 ⁹ 265	KCH WK



1010812-1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS DWG NO. <u>Contract NAS 9-497</u> DRAWN <u>Bender</u> 10-22-64 CHECKED <u>Ed F. Felt</u> 16 OCT 64 APPROVAL <u>Ed F. Felt</u> 11/12/64		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SEAL, RUBBER SPECIAL SHAPED SECTION SUBMINIATURE	
NASA APPROVAL <u>W. J. R. R. R.</u> MIT APPROVAL <u>W. J. R. R. R.</u>		SPECIFICATION CONTROL DRAWING	
NEXT ASSY		USED ON	FINAL FINISH
APPLICATION		HEAT TREATMENT	FINAL FINISH
CODE IDENT NO. <u>80230</u> SIZE <u>C</u>		NASA DRAWING NO. <u>1010812</u>	
SCALE		WT	SHEET <u>3 of 3</u>

WIRING HARNESS A										6014506		S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS
A	60A	5	SHLD A60 P3-402					.20 NO .19 NO			33	BRANCH 5
A	60B	5	E9 SHLD A60					.19 NO .20 NO				
A	60R		P3-602 P4-152					.19 NO .19 NO			34 34	BRANCH 5 BRANCH 10
A	60Y		P3-502 P4-252					.19 NO .19 NO			34 34	BRANCH 5 BRANCH 10
A	61	16			1.00	.75	.75				68 68	37 37
A	61A	5	SHLD A61 P3-102					.20 NO .19 NO			33	BRANCH 5
A	61B	5	E9 SHLD A61					.19 NO .20 NO			70	
A	61P		P3-302 P4-151					.19 NO .19 NO			34 34	BRANCH 5 BRANCH 10
A	61Y		P3-202 P4-251					.19 NO .19 NO			34 34	BRANCH 5 BRANCH 10
A	62	16			1.00	.75	.75				68 68	37 37
A	62A	5	SHLD A62 P3-401					.20 NO .19 NO			33	BRANCH 5
A	62B	5	E9 SHLD A62					.19 NO .20 NO				

SIZE	CODE IDENT NO.	6014506
A	60230	
SCALE-NONE REV LTR S		
		SHEET 35 OF 119

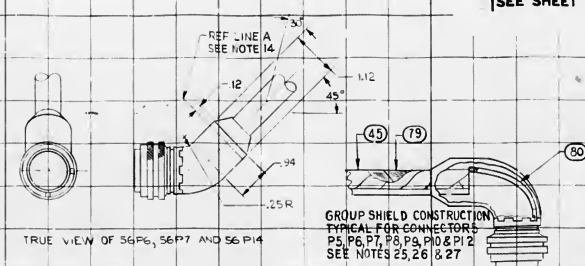
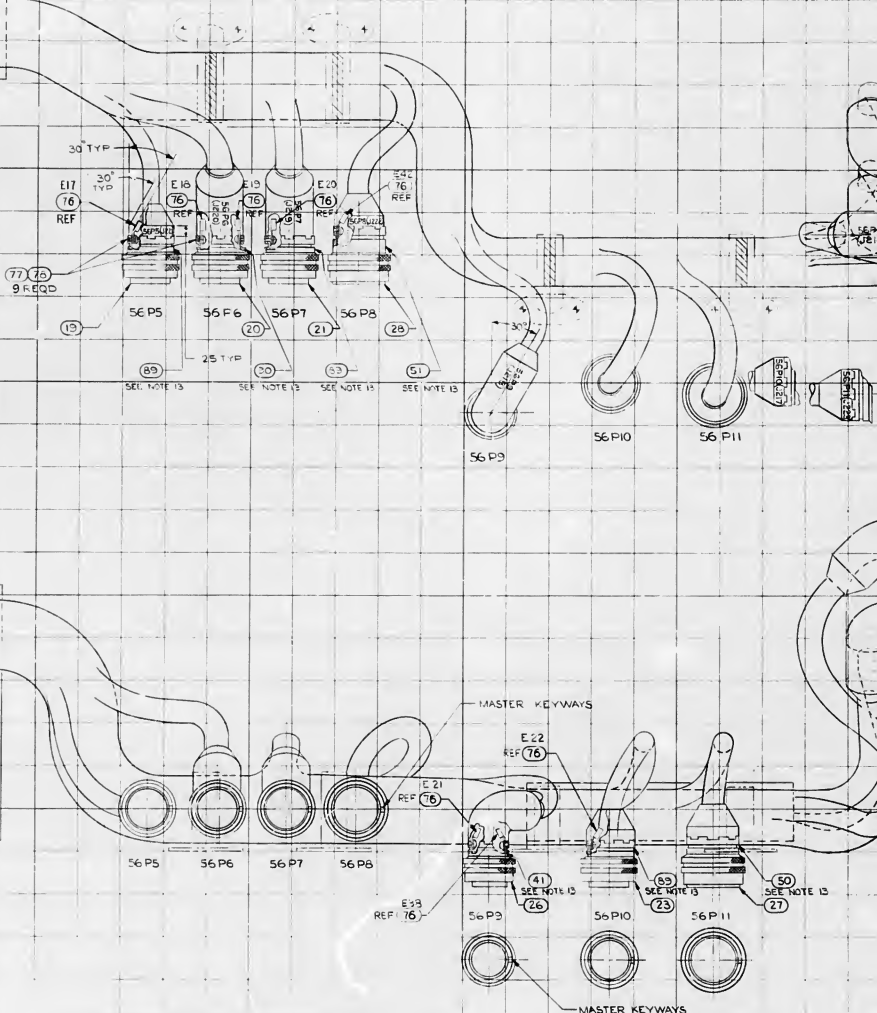
WIRING HARNESS A											6014506	S	
LEAD IDENT	WIRE MAIL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	PT	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS	
A	62P		P3-601 P4-150					.19 NO .19 NO			34 34	BRANCH 5 BRANCH 10	
A	62Y		P3-501 P4-250					.19 NO .19 NO			34 34	BRANCH 5 BRANCH 10	
A	63	16				1.00 1.00	.75 .75				68 68	37 37	
A	63A	5	SHLD A63 P3-101					.20 NO .19 NO			33	BRANCH 5	
A	63B	5	E9 SHLD A63					.19 NO .20 NO					
A	63R		P3-301 P4-149					.19 NO .19 NO			34 34	BRANCH 5 BRANCH 10	
A	63Y		P3-201 P4-249					.19 NO .19 NO			34 34	BRANCH 5 BRANCH 10	
A	64	16				1.00 1.75	.75 1.50				68 68	37 37	
A	64A	6	SHLD A64 P3-649					.20 NO .19 NO			33	BRANCH 7	
A	64B	5	P12-40 SHLD A64					.13 NO .20 NO			30		
A	64R		P3-449 P12-64					.19 NO .13 NO			30	BRANCH 7	
A	64Y		P3-549 P12-65					.19 NO .13 NO			30	BRANCH 7	

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE REV LTR S		
SHEET 36 OF 119		

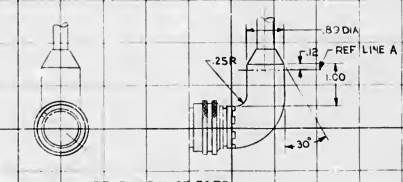
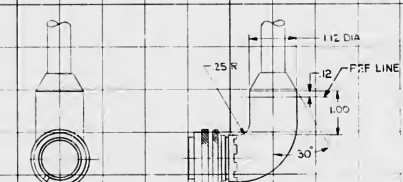
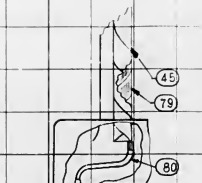
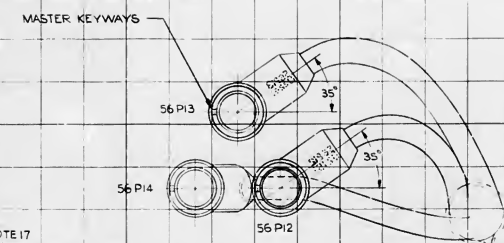
WIRING HARNESS A										6014506		S	
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS		
A 65	16				1.00 .75 1.75 1.50			68 68		37 37			
A 65A	5		SHLD A65 E14				.20 NO .19 NO						
A 65B	5		P9-26 SHLD A65				.13 NO .20 NO			30			
A 65R			P3-115 P9-46				.19 NO .13 NO			34 30	BRANCH 5		
A 65Y			P3-215 P9-47				.19 NO .13 NO			34 30	BRANCH 5		
A 66	16				1.00 .75 1.75 1.50			68 68		37 37			
A 66A	5		SHLD A66 E14				.20 NO .19 NO						
A 66B	5		P9-15 SHLD A66				.13 NO .20 NO			30			
A 66R			P3-315 P9-30				.19 NO .13 NO			34 30	BRANCH 5		
A 66Y			P3-415 P9-31				.19 NO .13 NO			34 30	BRANCH 5		
A 67	16				1.00 .75 1.75 1.50			68 68		37 37			
A 67A	5		SHLD A67 E14				.20 NO .19 NO						
SIZE A										CODE IDENT NO. 80230		6014506	
SCALE-NONE					REV LTR					S		SHEET 37 OF 119	

WIKING HARNESS A										6014506		S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	PT (S)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	67B	5	P9-14 SHLD	A67				.13 NO .20 NO			30	
A	67R		P3-515 P9-4					.19 NO .13 NO			34 30	BRANCH 5
A	67Y		P3-615 P9-5					.19 NO .13 NO			34 30	BRANCH 5
A	68	16				1.00 1.75	.75 1.50			68 68	37 37	
A	68A	5	SHLD E14	A68				.20 NO .19 NO				
A	68B	5	P9-24 SHLD	A68				.13 NO .20 NO			30	
A	68R		P3-116 P9-25					.19 NO .13 NO			34 30	BRANCH 5
A	68Y		P3-216 P9-11					.19 NO .13 NO			34 30	BRANCH 5
A	69	16				1.00 1.75	.75 1.50			68 68	37 37	
A	69A	5	SHLD E14	A69				.20 NO .19 NO				
A	69R	5	P9-51 SHLD	A69				.13 NO .20 NO			30	
A	69R		P3-316 P9-29					.19 NO .13 NO			34 30	BRANCH 5

SIZE	CODE IDENT NO.	6014506	
A	80230		
SCALE-NONE		REV LTR	S
		SHEET 38 OF 119	



GROUP SHIELD CONSTRUCTION
TYPICAL FOR CONNECTORS
P5, P6, P7, P8, P9, P10 & P12
SEE NOTES 25, 26 & 27



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE IN THOUSANDS FRACTIONS ARE IN SIXTEENTHS DO NOT SCALE THIS DRAWING NOTES:		MIL INSTRUMENTATION LAB CHIEF: J. J. JENSEN CHECKED: [Signature] APPROVED: [Signature] DATE: 11/24/64		MANNED SPACECRAFT CENTER HOUSTON, TEXAS G/N INTERCONNECT HARNESS "A" (LEM)	
APPROVED: [Signature]	DATE: 11/24/64	COOK BOOK NO: 80230	J	DRAWING NO: 6014506	SHEET 119 OF 119
NEET ARMY	USED ON	APPLICATION	DATE	SCALE	1/1

2/6014506

LEAD IDENT	WIRE MATERIAL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA	SHLD STRIP	LEAD CUT	INS STRIP	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 103	7									
A 103R			P2-D6 P11-F*				.19 NO .19 NO		33 31	BRANCH 3
A 103Y			P2-D7 P11-G*				.19 NO .19 NO		33 31	BRANCH 3
A 104	7									
A 104R			P2-C6 P11-Y				.19 NO .19 NO		33 31	BRANCH 3
A 104Y			P2-C7 P11-Z				.19 NO .19 NO		33 31	BRANCH 3
A 105	2		P2-F8 P11-A				.19 NO .19 NO		33 31	BRANCH 3
A 106			OFLETED							
A 107	7									
A 107P			P8-L P11-M				.19 NO .19 NO		31	
A 107Y			P8-N P11-O*				.19 NO .19 NO		31	
A 108	10									
<div> <div>SIZE</div> <div>A</div> </div> <div> <div>CODE IDENT NO.</div> <div>80230</div> </div> <div>6014506</div>										
<div>SCALE-NONE</div> <div>REV LTR</div> <div>S</div> <div>SHEET 51 OF 119</div>										

MIL 2088 7-62

LEAD IDENT	WIRE MATERIAL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA	SHLD STRIP	LEAD CUT	INS STRIP	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 108G			P2-F12 P11-V				.19 NO .19 NO		33	BRANCH 3
A 108R			P2-D12 P11-B				.19 NO .19 NO		33	BRANCH 3
A 108Y			P2-G12 P11-C				.19 NO .19 NO		33	BRANCH 3
A 109	7									
A 109R			P2-A14 P11-S				.19 NO .19 NO		33 31	BRANCH 3
A 109Y			P2-B14 P11-T				.19 NO .19 NO		33 31	BRANCH 3
A 110	7									
A 110R			P2-H13 P11-P				.19 NO .19 NO		33	BRANCH 3
A 110Y			P2-K13 P11-R				.19 NO .19 NO		33	BRANCH 3
A 111	2		E43 P11-X				.30 NO .25 NO			LARGE END BR3
A 112	9									
A 112R			P1-G15 P2-H14				.19 NO .19 NO		34 34	BRANCH 1 BRANCH 3
<div> <div>SIZE</div> <div>A</div> </div> <div> <div>CODE IDENT NO.</div> <div>80230</div> </div> <div>6014506</div>										
<div>SCALE-NONE</div> <div>REV LTR</div> <div>S</div> <div>SHEET 52 OF 119</div>										

MIL 2088 7-62

LEAD IDENT	WIRE MATERIAL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA	SHLD STRIP	LEAD CUT	INS STRIP	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 112Y			P1-G16 P2-K14				.19 NO .19 NO		34 34	BRANCH 1 BRANCH 3
A 113	2		P1-G14 P11-X				.19 NO .25 NO		33	BRANCH 1
A 114	4		P1-B33 P3-620				.19 NO .19 NO		34 34	BRANCH 2 BRANCH 6
A 115	4		P1-B34 P3-121				.19 NO .19 NO		34 34	BRANCH 2 BRANCH 6
A 116	4		P1-C33 P3-221				.19 NO .19 NO		34 34	BRANCH 2 BRANCH 6
A 117	4		P1-C34 P3-321				.19 NO .19 NO		34 34	BRANCH 2 BRANCH 6
A 118	4		P1-D33 P3-421				.19 NO .19 NO		34 34	BRANCH 2 BRANCH 6
A 119	4		P1-D34 P3-521				.19 NO .19 NO		34 34	BRANCH 2 BRANCH 6
A 120	4		P1-F33 P3-621				.19 NO .15 NO		34 34	BRANCH 2 BRANCH 6
A 121	4		P1-F34 P3-122				.19 NO .19 NO		34 34	BRANCH 2 BRANCH 6
A 122	4		P1-G33 P3-222				.19 NO .19 NO		34 34	BRANCH 2 BRANCH 6
A 123	4		P1-G34 P3-322				.19 NO .19 NO		34 34	BRANCH 2 BRANCH 6
<div> <div>SIZE</div> <div>A</div> </div> <div> <div>CODE IDENT NO.</div> <div>80230</div> </div> <div>6014506</div>										
<div>SCALE-NONE</div> <div>REV LTR</div> <div>S</div> <div>SHEET 53 OF 119</div>										

MIL 2088 7-62

LEAD IDENT	WIRE MATERIAL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA	SHLD STRIP	LEAD CUT	INS STRIP	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 124	7									
A 124R			P2-A26 P14-35				.19 NO .13 NO		33 30	BRANCH 4
A 124Y			P2-B26 P14-36				.19 NO .13 NO		33 30	BRANCH 4
A 125	7									
A 125R			P2-A28 P14-37				.19 NO .13 NO		33 30	BRANCH 4
A 125Y			P2-B28 P14-38				.19 NO .13 NO		33 30	BRANCH 4
A 126	7									
A 126R			P2-A30 P14-39				.19 NO .13 NO		33 30	BRANCH 4
A 126Y			P2-B30 P14-40				.19 NO .13 NO		33 30	BRANCH 4
A 127	9									
A 127R			P1-A15 P2-B24				.19 NO .19 NO		34 34	BRANCH 1 BRANCH 4
A 127Y			P1-A16 P2-B25				.19 NO .19 NO		34 33	BRANCH 1 BRANCH 4
<div> <div>SIZE</div> <div>A</div> </div> <div> <div>CODE IDENT NO.</div> <div>80230</div> </div> <div>6014506</div>										
<div>SCALE-NONE</div> <div>REV LTR</div> <div>S</div> <div>SHEET 54 OF 119</div>										

MIL 2088 7-62

WIRING HARNESS A											6014506	S
LEAD IDENT	WIRE MATERIAL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA	SHLD STRIP	LEAD CUT	INS STRIP	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS	
A 184	4		P1-D2 P10-40				.19 NO .13 NO			34 30	BRANCH 1	
A 185	4		P1-C2 P10-39				.19 NO .13 NO			34 30	BRANCH 1	
A 186	4		P1-A3 P10-85				.19 NO .13 NO			34 30	BRANCH 1	
A 187	4		P1-B3 P10-61				.19 NO .13 NO			34 30	BRANCH 1	
A 188	4		P1-C3 P10-37				.19 NO .13 NO			34 30	BRANCH 1	
A 189	4		P1-A4 P10-84				.19 NO .13 NO			34 30	BRANCH 1	
A 190	4		P1-A5 P10-83				.19 NO .13 NO			34 30	BRANCH 1	
A 191	4		P1-C4 P10-59				.19 NO .13 NO			34 30	BRANCH 1	
A 192	4		P1-B4 P10-60				.19 NO .13 NO			34 30	BRANCH 1	
A 193	4		P1-D8 P10-3				.19 NO .13 NO			34 30	BRANCH 1	
A 194	4		P1-D7 P10-20				.19 NO .13 NO			34 30	BRANCH 1	
A 195	4		P1-F7 P10-21				.19 NO .13 NO			34 30	BRANCH 1	

SIZE	CODE IDENT NO. 80230	6014506		
A				
SCALE-NONE		REV LTR	S	SHEET 67 OF 119

WIRING HARNESS A											6014506	S
LEAD IDENT	WIRE MATERIAL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA	SHLD STRIP	LEAD STRIP	INS STRIP	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS	
A 196	4		P1-G8 P10-10				.19 NO .13 NO			34 30	BRANCH 1	
A 198	4		P1-G7 P10-23				.19 NO .13 NO			34 30	BRANCH 1	
A 199	4		P1-F8 P10-9				.19 NO .13 NO			34 30	BRANCH 1	
A 200	4		P1-C5 P10-36				.19 NO .13 NO			34 30	BRANCH 1	
A 201	4		P1-D6 P10-35				.19 NO .13 NO			34 30	BRANCH 1	
A 202	4		P1-F6 P10-17				.19 NO .13 NO			34 30	BRANCH 1	
A 203	4		P1-D5 P10-19				.19 NO .13 NO			34 30	BRANCH 1	
A 204	4		P1-G5 P10-7				.19 NO .13 NO			34 30	BRANCH 1	
A 205	4		P1-G6 P10-6				.19 NO .13 NO			34 30	BRANCH 1	
A 206	4		P1-F5 P10-18				.19 NO .13 NO			34 30	BRANCH 1	
A 207	4		P1-D3 P10-41				.19 NO .13 NO			34 30	BRANCH 1	
A 208	4		P1-D4 P10-22				.19 NO .13 NO			34 30	BRANCH 1	
SIZE											CODE IDENT	6014506
A											NO. 80230	
SCALE-NONE										REV LTR	S	SHEET 68 OF 119

WIRING HARNESS A												6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA	SHLD STRIP LG	LEAD STRIP CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS		
A 209	4		P1-F2 P10-66				.19 NO .13 NO			34 30	BRANCH 1		
A 210	4		P1-G3 P10-67				.19 NO .13 NO			34 30	BRANCH 1		
A 211	4		P1-F4 P10-43				.19 NO .13 NO			34 30	BRANCH 1		
A 212	4		P1-G4 P10-68				.19 NO .13 NO			34 30	BRANCH 1		
A 213	4		P1-F3 P10-42				.19 NO .13 NO			34 30	BRANCH 1		
A 217	4		P1-B5 P10-82				.19 NO .13 NO			34 30	BRANCH 1		
A 218	4		P1-C6 P10-58				.19 NO .13 NO			34 30	BRANCH 1		
A 219	4		P1-A6 P10-57				.19 NO .13 NO			34 30	BRANCH 1		
A 220	4		P1-B6 P10-34				.19 NO .13 NO			34 30	BRANCH 1		
A 221	11												
A 221G			P1-A10 P10-16				.19 NO .13 NO			34 30	BRANCH 1		
A 221K			P1-B10 P10-5				.19 NO .13 NO			34 30	BRANCH 1		

SIZE	CODE IDENT NO.										
A	80230	6014506									
SCALE-NONE		REV LTR		S		SHEET 69 OF 119					

WIRING HARNESS A												6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS	
A 221Y			P1-A11 P10-15					.19 NO .13 NO			34 30	BRANCH 1	
A 224	13												
A 224G			P5-84 P10-1					.13 NO .13 NO			29 30		
A 224N			P5-83 P10-2					.13 NO .13 NO			29 30		
A 224R			P5-31 P10-11					.13 NO .13 NO			29 30		
A 224Y			P5-57 P10-3					.13 NO .13 NO			29 30		
A 228	4		P1-D13 P10-46					.19 NO .13 NO			34 30	BRANCH 1	
A 229	4		P1-G13 P10-70					.19 NO .13 NO			34 30	BRANCH 1	
A 230	4		P1-D12 P10-44					.19 NO .13 NO			34 30	BRANCH 1	
A 231	4		P1-G12 P10-69					.19 NO .13 NO			34 30	BRANCH 1	
A 232	4		P1-F13 P10-45					.19 NO .13 NO			34 30	BRANCH 1	
A 233	4		P1-F12 P10-25					.19 NO .13 NO			34 30	BRANCH 1	

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE		REV LTR
S		SHEET 70 OF 119

WIRING HARNESS A											6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	INS STRIP LG	NOTE ONE, TIN	ACCESSORY ITEMS	REMARKS		
A 254R			DELETED									
A 254Y			DELETED									
A 255			DELETED									
A 255G			DELETED									
A 255N			DELETED									
A 255R			DELETED									
A 255Y			DELETED									
A 256	9									G		
A 256R			P4-127 P12-66				.19 NO .13 NO		34 30	G, BRANCH 9		
A 256Y			P4-227 P12-67				.19 NO .13 NO		34 30	G, BRANCH 9		
A 257			DELETED									
A 257G			DELETED									

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE		
REV LTR	S	SHEET 75 OF 119

WIRING HARNESS A										6014506	5
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, TIN FIG	ACCESSORY ITEMS	REMARKS	
A 257N			DELETED								
A 257R			DELETED								
A 257Y			DELETED								
A 258	9									G	
A 258R			P4-34R P12-27				.19 NO .13 NO		34 30	G, BRANCH 9	
A 258Y			P4-44R P12-28				.19 NO .13 NO		34 30	G, BRANCH 9	
A 259	9									G	
A 259R			P4-347 P12-47				.19 NO .13 NO		34 30	G, BRANCH 9	
A 259Y			P4-447 P12-48				.19 NO .13 NO		34 30	G, BRANCH 9	
A 260	9									G	
A 260R			P4-346 P12-72				.19 NO .13 NO		34 30	G, BRANCH 9	
A 260Y			P4-446 P12-73				.19 NO .13 NO		34 30	G, BRANCH 9	

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE REV LTR S		
SHEET 76 OF 119		

WIRING HARNESS A											6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	NOTE ONE, TIN FIG	ACCESSORY ITEMS	REMARKS	
A 261		9									G	
A 261R			P4-345 P12-13					.19 NO .13 NO		34 30	G, BRANCH 9	
A 261Y			P4-445 P12-29					.19 NO .13 NO		34 30	G, BRANCH 9	
A 262		9									G	
A 262R			P4-125 P12-66					.19 NO .13 NO		34 30	G, BRANCH 9	
A 262Y			P4-225 P12-69					.19 NO .13 NO		34 30	G, BRANCH 9	
A 263		9									G	
A 263R			P4-124 P12-43					.19 NO .13 NO		34 30	G, BRANCH 9	
A 263Y			P4-224 P12-44					.19 NO .13 NJ		34 30	G, BRANCH 9	
A 264			DELETED									
A 264G			DELETED									
A 264N			DELETED									

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE REV LTR S		
SHEET 77 OF 119		

WIRING HARNESS A											6014506	5
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	JKT LG	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	NOTE ONE, TIN FIG	ACCESSORY ITEMS	REMARKS
A	264R		DELETED									
A	264Y		DELETED									
A	265		DELETED									
A	265G		DELETED									
A	265R		DELETED									
A	265Y		DELETED									
A	266	9										G
A	266R		P4-344 P12-70						.19 NO .13 NO		34 30	G, BRANCH 9
A	266Y		P4-444 P12-71						.19 NO .13 NO		34 30	G, BRANCH 9
A	267	9										G
A	267R		P4-343 P12-45						.19 NO .13 NO		34 30	G, BRANCH 9
A	267Y		P4-443 P12-46						.19 NO .13 NO		34 30	G, BRANCH 9

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE	REV LTR	S
SHEET 78 OF 119		

WIRING HARNESS A											6014506	S
WIRE LEAD IDENT	MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS
A 263		9										G
A 268R			P4-342 P12-25					.19 NO .13 NU			34 30	G, BRANCH 9
A 268Y			P4-442 P12-26					.19 NU .13 NU			34 30	G, BRANCH 9
A 269		9										G
A 269R			P4-341 P12-24					.19 NU .13 NU			34 30	G, BRANCH 9
A 269Y			P4-441 P12-10					.19 NO .13 NU			34 30	G, BRANCH 9
A 270		9										G
A 270R			P4-340 P12-4					.19 NO .13 NO			34 30	G, BRANCH 9
A 270Y			P4-440 P12-14					.19 NO .13 NO			34 30	G, BRANCH 9
A 272		9										M
A 272R			P4-133 P10-51					.19 NU .13 NO			34 30	M, BRANCH 9
A 272Y			P4-233 P10-29					.19 NO .13 NU			34 30	M, BRANCH 9
SIZE CODE IDENT												
A NO. 80230 6014506												
SCALE-NONE REV LTR S												
SHEET 79 OF 119												

WIRING HARNESS A											6014506	S
WIRE LEAD IDENT	MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS
A 273	9											M
A 273R			P4-132 P10-75					.19 NU .13 NU			34 30	M, BRANCH 9
A 273Y			P4-232 P10-74					.19 NO .13 NO			34 30	M, BRANCH 9
A 274	9											M
A 274R			P4-130 P10-49					.19 NO .13 NO			34 30	M, BRANCH 9
A 274Y			P4-230 P10-73					.19 NO .13 NO			34 30	M, BRANCH 9
A 275	9											M
A 275R			P4-352 P10-72					.19 NO .13 NU			34 30	M, BRANCH 9
A 275Y			P4-452 P10-71					.19 NO .13 NO			34 30	M, BRANCH 9
A 276	9											E
A 276R			P4-358 P7-74					.19 NU .13 NO			34 29	E, BRANCH 10
A 276Y			P4-458 P7-49					.19 NO .14 NO			34 29	E, BRANCH 10

SIZE	CODE IDENT	6014506
A	NO. 80230	
SCALE-NONE		REV LTR
S		SHEET 80 OF 119

WIRING HARNESS A												6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS		
A 277		9									E		
A 277R			P4-357 P7-50				.19 NO .13 NO			34 29	E, BRANCH 10		
A 277Y			P4-457 P7-29				.19 NO .13 NO			34 29	E, BRANCH 10		
A 278		9									E		
A 278R			P4-356 P7-75				.19 NO .13 NO			34 29	E, BRANCH 10		
A 278Y			P4-456 P7-75				.19 NO .13 NO			34 29	E, BRANCH 10		
A 279		9									E		
A 279R			P4-355 P7-30				.19 NO .13 NO			34 29	E, BRANCH 10		
A 279Y			P4-455 P7-51				.19 NO .13 NO			34 29	E, BRANCH 10		
A 282		4	P2-H17 P4-522				.19 NO .19 NO			34 34	P, BRANCH 4 BRANCH 9		
A 284		4	P2-A22 P4-623				.19 NO .19 NO			34 34	P, BRANCH 4 BRANCH 9		
A 286R			DELETED										

SIZE	CODE IDENT NO. 80230	6014506
A		
SCALE-NONE		REV LTR
S		SHEET 81 OF 119

WIRING HARNESS A											6014506	S
WIRE LEAD IDENT	MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS
A	286Y		DELETED									
A	289	4	P4-603 P5-51					.19 NO .13 NO			34 29	A, BRANCH 8
A	290	4	P4-503 P5-78					.19 NO .13 NO			34 29	A, BRANCH 8
A	291	4	P4-403 P5-77					.19 NO .13 NO			34 29	A, BRANCH 8
A	292	4	P4-303 P5-76					.19 NO .13 NO			34 29	A, BRANCH 8
A	293	4	P4-203 P5-79					.19 NO .13 NO			34 29	A, BRANCH 8
A	294	4	P4-103 P5-49					.19 NO .13 NO			34 29	A, BRANCH 8
A	295	4	P4-502 P5-28					.19 NO .13 NO			34 29	A, BRANCH 8
A	296	4	P4-402 P5-48					.19 NO .13 NO			34 29	A, BRANCH 8
A	297	4	P4-404 P5-2					.19 NO .13 NO			34 29	B, BRANCH 8
A	298	4	P4-304 P5-9					.19 NO .13 NO			34 29	B, BRANCH 8
A	299	4	P4-204 P5-22					.19 NO .13 NO			34 29	B, BRANCH 8

SIZE	CODE IDENT NO. 80230	6014506
A		
SCALE-NONE	REV LTR	S
		SHEET 82 OF 119

WIRING HARNESS A													6014506		S	
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS				
A 300	4		P4-605 P5-41					.19 NU .13 NU			34 29	B, BRANCH 8				
A 301	4		P4-505 P5-66					.19 NU .13 NU			34 29	B, BRANCH 8				
A 302	4		P4-405 P5-3					.19 NU .13 NU			34 29	B, BRANCH 8				
A 303	4		P4-305 P5-10					.19 NU .13 NU			34 29	B, BRANCH 8				
A 304	4		P4-205 P5-23					.19 NU .13 NU			34 29	B, BRANCH 8				
A 305	4		P4-606 P5-42					.19 NU .13 NU			34 29	B, BRANCH 8				
A 306	4		P4-506 P5-67					.19 NU .13 NU			34 29	B, BRANCH 8				
A 307	4		P4-406 P5-12					.19 NU .13 NU			34 29	B, BRANCH 8				
A 308	4		P4-306 P5-11					.19 NU .13 NU			34 29	B, BRANCH 8				
A 309	4		P4-206 P5-24					.19 NU .13 NU			34 29	B, BRANCH 8				
A 310	4		P4-607 P5-43					.19 NU .13 NU			34 29	B, BRANCH 8				
A 311	4		P4-507 P5-68					.19 NU .13 NU			34 29	B, BRANCH 8				
													SIZE A	CODE IDENT NO. 80230	6014506	
SCALE-NONE										REV LTR	S	SHEET 83 OF 119				

WIRING HARNESS A													6014506			
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. JKT AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS				
A 312	4		P4-407 P5-27					.19 NO .13 NO			34 29	B, BRANCH 8				
A 313	4		P4-307 P5-26					.19 NO .13 NO			34 29	B, BRANCH 8				
A 314	4		P4-207 P5-25					.19 NO .13 NO			34 29	B, BRANCH 8				
A 315	4		P4-608 P5-44					.19 NO .13 NO			34 29	B, BRANCH 8				
A 316	4		P4-508 P5-69					.19 NO .13 NO			34 29	B, BRANCH 8				
A 317	4		P4-408 P5-18					.19 NO .13 NO			34 29	B, BRANCH 8				
A 318	4		P4-308 P5-47					.19 NO .13 NO			34 29	B, BRANCH 8				
A 319	4		P4-208 P5-46					.19 NO .13 NO			34 29	B, BRANCH 8				
A 320	4		P4-604 P5-45					.19 NO .13 NO			34 29	B, BRANCH 8				
A 321	4		P4-609 P5-70					.19 NO .13 NO			34 29	B, BRANCH 8				
A 322	4		P4-409 P5-72					.19 NO .13 NO			34 29	B, BRANCH 8				
A 323	3		P4-509 P5-7					.19 NO .13 NO			33 29	B, BRANCH 8				
													SIZE A	CODE IDENT NO. 80230	6014506	
													SCALE-NONE	REV LTR	S	SHEET 84 OF 119

WIRING HARNESS A												6014506		S	
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. JKT AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS			
A 324	3		P4-104 P5-8					.19 NU .13 NU			33 29	B, BRANCH 8			
A 325	3		P4-108 P5-1					.19 NU .13 NU			33 29	B, BRANCH 8			
A 326	4		P4-116 P5-73					.19 NU .13 NU			34 29	B, BRANCH 8			
A 327	3		P4-106 P5-21					.19 NU .13 NU			33 29	B, BRANCH 8			
A 328	9											G			
A 328R			P4-126 P12-42					.19 NU .13 NU			34 30	G, BRANCH 9			
A 328Y			P4-226 P12-23					.19 NU .13 NU			34 30	G, BRANCH 9			
A 329	9											G			
A 329R			P4-339 P12-11					.19 NU .13 NU			34 30	G, BRANCH 9			
A 329Y			P4-439 P12-12					.19 NU .13 NU			34 30	G, BRANCH 9			
A 330			DELETED												
A 330G			DELETED												
												SIZE A	CODE IDENT NO. 80230	6014506	
												SCALE-NONE	REV LTR	S	SHEET 85 OF 119

WIRING HARNESS A												6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. JKT AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS	
A	330K		DELETED										
A	330Y		DELETED										
A	331		DELETED										
A	331G		DELETED										
A	331N		DELETED										
A	331K		DELETED										
A	331Y		DELETED										
A	332		DELETED										
A	332G		DELETED										
A	332N		DELETED										
A	332K		DELETED										
A	332Y		DELETED										

SIZE A	CODE IDENT NO. 80230	6014506
SCALE-NONE	REV LTR	S
SHEET 86 OF 119		

WIRING HARNESS A										6014506	S										
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS											
A 355R			P2-C4 P8-K				.19 NO .19 NO		33	BRANCH 3											
A 355Y			P2-C5 P8-J				.19 NO .19 NO		33	BRANCH 3											
A 356	7																				
A 356R			P2-D4 P8-K				.19 NO .19 NO		33	BRANCH 3											
A 356Y			P2-D5 P8-J				.19 NO .19 NO		33	BRANCH 3											
A 357	7																				
A 357R			P2-F4 P8-K				.19 NO .19 NO		33 32	BRANCH 3											
A 357Y			P2-F5 P8-M				.19 NO .19 NO		33	BRANCH 3											
A 358	16				1.00 1.75	.75 1.50			68 68	37 37											
A 358A	5		SHLD A358 E16				.20 NO .19 NO														
A 358B	5		P7-B3 SHLD A358				.13 NO .20 NO		29												
A 358R			P3-237 P7-B2				.19 NO .13 NO		34 29	BRANCH 6											
<table><tr><td>SIZE</td><td>CODE IDENT NO.</td><td rowspan="2">6014506</td></tr><tr><td>A</td><td>80230</td></tr><tr><td colspan="2">SCALE-NONE</td><td>REV LTR</td><td>S</td><td>SHEET 91 OF 119</td></tr></table>												SIZE	CODE IDENT NO.	6014506	A	80230	SCALE-NONE		REV LTR	S	SHEET 91 OF 119
SIZE	CODE IDENT NO.	6014506																			
A	80230																				
SCALE-NONE		REV LTR	S	SHEET 91 OF 119																	

WIRING HARNESS A										6014506		S
LEAD IDENT	WIRE MATERIAL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS
A	358Y		P3-337 P7-5H					.19 NO .13 NO			34 29	BRANCH 6
A	359	16			1.00 1.75	.75 1.50			68 68		37 37	
A	359A	5	SHLD E16	A359				.20 NO .19 NO			70	
A	359B	5	P7-60 SHLD	A359				.13 NO .20 NO			29	
A	359R		P3-437 P7-84					.19 NO .13 NO			34 29	BRANCH 6
A	359Y		P3-537 P7-59					.19 NO .13 NO			34 29	BRANCH 6
A	360	4	P3-611 P4-622					.19 NO .19 NO			34 34	D, BRANCH 5 BRANCH 8
A	361	7										
A	361R		P2-H15 P7-63					.19 NO .13 NO			33 29	BRANCH 3
A	361Y		P2-K15 P7-38					.19 NO .13 NO			33 29	BRANCH 3
A	362		DELETED									
A	362A		DELETED									

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE		
REV LTR		S
SHEET		92 OF 119

WIRING HARNESS A										6014506	S										
LEAD IDENT	WIRE MTRL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS											
A	362B		DELETED																		
A	362R		DELETED																		
A	362Y		DELETED																		
A	363		DELETED																		
A	363A		DELETED																		
A	363B		DELETED																		
A	363R		DELETED																		
A	363Y		DELETED																		
A	364	9																			
A	364R		P1-B19 P14-43				.19 NO .13 NO		34 30	BRANCH 1											
A	364Y		P1-B20 P14-44				.19 NO .13 NO		34 30	BRANCH 1											
A	365	4	P1-U19 P14-45				.19 NO .13 NO		34 30	BRANCH 1											
<table><tr><td>SIZE</td><td>CODE IDENT NO.</td><td rowspan="3">6014506</td></tr><tr><td>A</td><td>80230</td></tr><tr><td colspan="2">SCALE-NONE</td><td>REV LTR</td><td>S</td><td>SHEET 93 OF 119</td></tr></table>												SIZE	CODE IDENT NO.	6014506	A	80230	SCALE-NONE		REV LTR	S	SHEET 93 OF 119
SIZE	CODE IDENT NO.	6014506																			
A	80230																				
SCALE-NONE			REV LTR	S	SHEET 93 OF 119																

WIRING HARNESS A										6014506	S
LEAD IDENT	WIRE MTRL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERN. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS
A 366	2		P3-236 P8-C				.19 NO .19 NO			33	BRANCH 6
A 367	2		P3-436 P8-C				.19 NO .19 NO			33	BRANCH 6
A 385R			DELETED								
A 385Y			DELETED								
A 387			DELETED								
A 393			DELETED								
A 393G			DELETED								
A 393R			DELETED								
A 393Y			DELETED								
A 394			DELETED								
A 394R			DELETED								
A 394Y			DELETED								

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE	REV LTR	S
SHEET 94 OF 119		

NOTE GENERAL NOTES

- 1 SHIELD TERMINATION FIGURES ARE PER ND1002071 FOR FIGURE 63 AND ND 1002032 FOR FIGURE 7.
- 2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- 3 INTERCONNECT LIST FOR THIS HARNESS IS 6014504.
- 4 PARTIAL CIRCUIT POINTS ARE SHOWN. PREFIX WITH UNIT NUMBER 56 FOR COMPLETE CIRCUIT POINT.
- 5 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER.
A- FROM END OF SHIELD
B- TO END OF SHIELD
G- GREEN
K- BLACK
L- BLUE
N- BROWN
R- RED
W- WHITE
Y- YELLOW
- 6 ASTERISK DENOTES LOWER CASE LETTER.
- 7 GRID MODULE ON PICTURE SHEET IS 1 INCH TRUE POSITION.
- 8 UNLESS OTHERWISE SPECIFIED FEATURE CENTERLINES ON PICTURE SHEET ARE LOCATED WITHIN \pm OR \pm .25. ENDS OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN .12.
- 9 VENDOR ITEM-SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE	REV LTR	S
SHEET 3 OF 119		

NOTE GENERAL NOTES

- 10 CRIMP CONTACTS PER ND1002032.
- 11 ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT OR CONTACT AND SEALING PLUG AS FOLLOWS
CONNECTOR 56P1, 2, 3, AND 4 USE ITEM NUMBER 33
CONNECTOR 56P8, USE ITEM NUMBERS 32 AND 36
CONNECTOR 56P11, USE ITEM NUMBERS 31 AND 62
CONNECTOR 56P5, 6, AND 7 USE ITEM NUMBERS 29 AND 35
CONNECTOR 56P9, 10, 12, 13, AND 14 USE ITEM NUMBER 30 AND 35
- 12 LACE HARNESS PER ND1002032 USING ITEM 44.
- 13 APPLY BONDING MATERIAL PER ND1002187, TYPE 1, USING ITEMS 53, AND 54 TO THE THREADED PORTION OF CONNECTOR AND TO THE THREADED PORTION OF THE ADAPTER PRIOR TO ASSEMBLY.
- 14 ALL SHIELDED TERMINATIONS SHALL BE LOCATED BELOW REFERENCE LINE A. THERE SHALL BE NO EXPOSED CONDUCTORS OR ACCESSORIES AT THE SURFACE OF THE POTTING COMPOUND.
- 15 BEFORE LACING HARNESS, APPLY 2 TURNS OF TAPE TO INDICATE CABLE CLAMP LOCATION.
- 16 WRAP TAPE AROUND HARNESS IN AREA SHOWN, AS REQUIRED, TO BUILD UP DIAMETER TO FIT CABLE CLAMP.
- 17 MARK CONNECTOR WITH REFERENCE DESIGNATION AS SHOWN .12 HIGH, BLACK, PER ND1002019, CENTRALIZE.
- 18 DELETED
- 19 MARK CHARACTERS .12 HIGH, BLACK, PER ND1002019, SERIALIZE PER ND1002023.
- 20 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 1/2 OHM. TEST PER MIL-STD-202, METHOD 303.

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE	REV LTR	T
SHEET 4 OF 119		

NOTE GENERAL NOTES

- 21 A. INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 500 VDC APPLIED BETWEEN
1. THE ASSEMBLY PINS AND STRUCTURE GROUND, WITH THE EXCEPTION OF THOSE PINS ELECTRICALLY CONNECTED TO STRUCTURE GROUND AND THOSE PINS SPECIFIED IN PARA B.
2. EACH PIN AND ALL OTHER PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.
TEST PER MIL-STD-202, METHOD 302, EXCEPT ELECTRIFICATION TIME NOT APPLICABLE. SHORT CIRCUIT CURRENT SHALL BE LIMITED TO 15 MA.
- 22 PRESEAL BACK OF CONNECTORS P1, P2, P3, AND P4 PRIOR TO ENCAPSULATION PER ND1002187 TYPE III USING ITEMS 53, 54, 55, AND 56.
- 23 ENCAPSULATE BACK OF CONNECTORS PER ND1002236 USING ITEMS 46 AND 57.
- 24 CONDUCTORS LISTED WITH A LETTER A THROUGH Q IN THE REMARKS COLUMN ARE TO BE ASSEMBLED AS SHOWN ON THE CONFIGURATION DRAWING.
- 25 GROUP SHIELDING - THREAD ONE CONTINUOUS LENGTH OF GROUND WIRE, ITEM 17, THROUGH CENTER OF EMI/RFI SHIELDING TAPE, ITEM 82. ALLOW 6 INCHES OF GROUND WIRE TO EXTEND BEYOND ENDS OF SHIELDING TAPE. WRAP CABLE WITH ONE CONTINUOUS LENGTH OF PREPARED SHIELDING. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE, WITH A MINIMUM OF RIDGES AND FOLDS.
- 26 COMPLETELY COVER SHIELD WITH ONE CONTINUOUS WRAP OF INSULATION TAPE, ITEM 45. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE WITH A MINIMUM OF RIDGES AND FOLDS.
- 27 ASSEMBLE INSULATION TUBING ITEM 80, OVER GROUND WIRE AS REQUIRED TO REACH TERMINATION. ASSEMBLE SHRINK SLEEVING AS SHOWN.

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE	REV LTR	T
SHEET 5 OF 119		

NOTE GENERAL NOTES

- 28 CONDUCTORS SHALL ENTER CONNECTORS 56P1, 2, 3, AND 4 THROUGH THE BRANCH SPECIFIED IN THE REMARKS COLUMN.
- 29 DELETED
- 30 PERFORM WORKMANSHIP VIBRATION.
A. SINUSOIDAL SWEEP AT 3.5 G RMS. LIMITED TO 0.3 INCH PEAK TO PEAK DISPLACEMENT, FROM 10 TO 2000 CPS AT A RATE OF 4 OCTAVES PER MINUTE.
B. VIBRATION ALONG THE X AXIS OF THE SPACE CRAFT.
C. MONITOR FOR DISCONTINUITIES OF 10 MICRO SECONDS OR GREATER DURING VIBRATION.
D. COMPLETE CONTINUITY AND INSULATION RESISTANCE TESTING MUST BE ACCOMPLISHED AFTER VIBRATION.
- 31 MARK CHARACTERS .10 - .14 HIGH, BLACK, PER ND1002019. CENTRALIZE AS SHOWN
- 32 ASSEMBLE INSULATION SLEEVE, ITEM 93, OVER EACH ELECTRICALLY CONNECTED PIN OF CONNECTORS P1, P2, P3 AND P4. POSITION SLEEVING FLUSH TO TOP OF NYLON INSULATOR.

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE	REV LTR	S
SHEET 6 OF 119		

WIRING HARNESS A										6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
A 541	4		P4-513 P7-67				.18 NO .13 NO		34 29	D, BRANCH 9	
A 542			DELETED								
A 543			DELETED								
A 544			DELETED								
A 545			DELETED								
A 546			DELETED								
A 547			DELETED								
A 548			DELETED								
A 551	17		E17 E35				NO NO		80 80	A	
A 552	17		E17 E35				NO NO		76, 80 80	B	
A 553	17		E35 E38				NO NO		80 80	C	
A 554	17		E20 E37				NO NO		80 80	D	

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE	REV LTR	5
SHEET 115 OF 119		

WIRING HARNESS A										6014506	T
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
A 555	17		E20 E34					NO NO	76, 80 80	E	
A 556	17		E37 E39					NO NO	80 80	F	
A 557	17		E36 E39					NO NO	80 76, 80	G	
A 558	17		E35 E38					NO NO	70, 80 76, 80	H	
A 559	17		E19 E34					NO NO	80 70, 80	J	
A 560	17		E22 E36					NO NO	76, 80 80	M	
A 561	17		E34 E42					NO NO	70, 80 76, 80	N	
A 562	17		E16 E37					NO NO	80 80	O	
A 563	17		E43 E37					NO NO	80 80	LARGE END, P	
A 564	17		P1-F19 E34				.18 NO NO		80, 33 70, 80	Q	
A 565	2		P8-D P8-F				.22 NO .22 NO				
A 566	2		P8-D P8-F				.22 NO .22 NO				

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE		REV LTR
		T
		SHEET 116 OF 119

WIRING HARNESS A										6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
A 567	2		P8-L P8-F				.22 NO .22 NO				
A 568	2		P8-E P8-F				.22 NO .22 NO		32 32		
A 569	2		P8-H P8-M				.22 NO .22 NO				
A 570	2		P8-H P8-M				.22 NO .22 NO		32		
A 571	2		P8-J P8-M				.22 NO .22 NO				
A 572	2		P8-J P8-M				.22 NO .22 NO		32 32		
A 573	4		P4-628 P6-83				.18 NO .13 NO		34 29	J, BRANCH 10	
A 574	4		P4-528 P6-49				.18 NO .13 NO		34 29	J, BRANCH 10	
A 575	4		P4-626 P6-36				.18 NO .13 NO		34 29	J, BRANCH 10	
A 576	4		P4-526 P6-35				.18 NO .13 NO		34 29	J, BRANCH 10	
A 577	4		P4-519 P6-34				.18 NO .13 NO		34 29	J, BRANCH 10	
A 578	2		E43 P2-D9				.30 NO .18 NO		41, 92 33	SMALL END.	

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE		REV LTR
S		SHEET 117 OF 119

WIRING HARNESS A											6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS	
A 579	4		P4-627 P6-57				.18 NO .13 NO			34 29	J, BRANCH 10	
A 580	4		P4-527 P6-33				.18 NO .13 NO			34 29	J, BRANCH 10	

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE	REV LTR	S
		SHEET 118 OF 119

NOTE GENERAL NOTES
NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12--00	+ .06--06	+ .06--06	+ .06--06	+ .06--00
3 INCH TO 3 FT	+ .50--00	+ .25--25	+ .25--25	+ .25--25	
3 FT TO 10 FT	+1.00--00				
10 FT AND OVER	+2.00--00				

SIZE	CODE IDENT NO.	
A	80230	6014506
SCALE-NONE	REV LTR	S
SHEET	7 OF 119	

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1		6014506-001	DELETED
	2	1	6014506-002	WIRE PER 1010789-006, 22 AWG, YEL, 25 FT TOT LG
	3	1	6014506-003	WIRE PER 1010789-001, 24 AWG, YEL, 25 FT TOT LG
	4	1	6014506-004	WIRE PER 1010789-016, 26 AWG, YEL, 720 FT TOT LG
	5	1	6014506-005	WIRE PER 1010789-002, 24 AWG, BLK, 180 FT TOT LG
	6	1	6014506-006	WIRE PER 1010789-024, 26 AWG, BLK, 35 FT TOT LG
	7	1	6014506-007	WIRE PER 1010789-008, 22 AWG, YEL, RED, 190 FT TOT LG
	8	1	6014506-008	WIRE PER 1010789-003, 24 AWG, YEL, RED, 40 FT TOT LG
	9	1	6014506-009	WIRE PER 1010789-017, 26 AWG, YEL, RED, 160 FT TOT LG
	10	1	6014506-010	WIRE PER 1010789-009, 22 AWG, YEL, RED, GRN, 40 FT TOT LG
	11	1	6014506-011	WIRE PER 1010789-018, 26 AWG, YEL, RED, GRN, 15 FT TOT LG
	12	1	6014506-012	WIRE PER 1010789-005, 24 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	13	1	6014506-013	WIRE PER 1010789-019, 26 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG

SIZE	CODE IDENT NO.	
A	80230	6014506
SCALE-NONE	REV LTR	S
SHEET	8 OF 119	

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	14	1	6014506-014	WIRE PER 1010789-011, 24 AWG, YEL, YEL JKT, 7 FT TOT LG
	15	1	6014506-015	WIRE PER 1010789-012, 24 AWG, YEL, RED, YEL JKT, 20 FT TOT LG
	16	1	6014506-016	WIRE PER 1010789-015, 26 AWG, YEL, RED, YEL JKT, 380 FT TOT LG
	17	1	6014506-17	WIRE PER QQ-W-343, TYPE C, CLASS C UNCOATED, SILVER PLATED, 22AWG, 300 FT TOT LG
	18	1	6014506-018	WIRE PER 1010789-013, 24AWG, YEL, RED, GRN, YEL JKT, 5 FT TOT LG
	19	1	1010929-101	CONNECTOR, PLUG, ELECTRICAL (56P5)
	20	1	1010929-102	CONNECTOR, PLUG, ELECTRICAL (56P6)
	21	1	1010929-103	CONNECTOR, PLUG, ELECTRICAL (56P7)
	22	1	1010929-201	CONNECTOR, PLUG, ELECTRICAL (56P12)
	23	1	1010929-202	CONNECTOR, PLUG, ELECTRICAL (56P10)
	24	1	1010929-203	CONNECTOR, PLUG, ELECTRICAL (56P14)
	25	1	1010929-204	CONNECTOR, PLUG, ELECTRICAL (56P13)
	26	1	1010929-206	CONNECTOR, PLUG, ELECTRICAL (56P9)
	27	1	1010947-205	CONNECTOR, PLUG, ELECTRICAL (56P11)
	28	1	1010947-101	CONNECTOR, PLUG, ELECTRICAL (56P8)
	29	REF	1010770-1	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010929

SIZE	CODE IDENT NO.	
A	80230	6014506
SCALE-NONE	REV LTR	T
SHEET	9 OF 119	

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	9	30	REF 1010770-2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010929
	9	31	REF 1010964-2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010947
	9	32	REF 1010963-4	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010947
	9	33	545 1010955-1	CONTACT, MALE
	9	34	605 1010955-2	CONTACT, MALE
	11	35	190 1010958-1	PLUG, PROTECTIVE
	11	36	6 1010958-5	PLUG, PROTECTIVE
	9	37	228 1010402-2	SLEEVE, SOLDER
		38	2 1010490-110	INSULATION, SLEEVING (HEAT SHRINKABLE)
		39	1012534-38	DELETED
		40	2 2014670-4	ADAPTOR, CONNECTOR
		41	1 2014670-15	ADAPTOR, CONNECTOR
		43	AR MIL-T-23594	TAPE, TEFLON, TYPE II, 1/4 INCH WIDE
		44	AR 1012507-4	TAPE, LACING
		45	AR MIL-T-23594	TAPE, TEFLON, TYPE II, 1 INCH WIDE
		46	AR 1012503	COMPOUND, POTTING, POLYURETHANE
		50	1 2014670-1	ADAPTOR, CONNECTOR
		51	1 2014670-16	ADAPTOR, CONNECTOR

SIZE	CODE IDENT NO.	
A	80230	6014506
SCALE-NONE	REV LTR	S
SHEET	10 OF 119	

WIRING HARNESS A				6014506	S
SEE NOTE		LIST OF MATERIALS			
NUMBER	ITEM	QTY	PART NO.	DESCRIPTION	
	52		1010811- 2	DELETED	
	53	AR	1010661	EPOXY RESIN	
	54	AR	1010679	ADHESIVE, ACTIVATOR	
	55	AR	1006277	SILICA, PULVERIZED, PYROGENIC	
	56	AR	1008822	COLORANT, EPOXY BASE	
	57	AR	1012504	PRIMER, METAL PARTS	
	58	1	6014531-011	CONNECTOR ASSY, ELECT. (56P1)	
	59	1	6014532-011	CONNECTOR ASSY, ELECT. (56P2)	
	60	1	2014741-011	CONNECTOR PLUG, ELECT.	
	61	1	2014749-011	CONNECTOR PLUG, ELECT.	
11	62	7	1010958- 2	PLUG, PROTECTIVE	
	64		5014539	DELETED	
	69		MS35335-57	DELETED	
	70	17	MS25036-52	TERMINAL LUG	
	71	17	1006783- 18	SCREW, BUTTON HD	
	72		1006710-001	DELETED	
	73		1010945- 4	DELETED	
	74		1012534- 95	DELETED	
		SIZE	CODE IDENT NO.		
		A	80230	6014506	
		SCALE-NONE	REV LTR	S	SHEET 11 OF 119

WIRING HARNESS A				6014506	T
SEE NOTE		LIST OF MATERIALS			
NUMBER	ITEM	QTY	PART NO.	DESCRIPTION	
	75		MS17182-2	DELETED	
	76	9	MS17182-1	TERMINAL LUG	
	77	9	MS35333-69	WASHER, LOCK	
	78	9	1006783- 93	SCREW, BUTTON HD	
	79	AR	1010789	TAPE, SHIELDING, EMF/RFI, 300 FT TOT LG	
	80	AR	1006776- 19	SLEEVE, INSULATION, 10 FT TOT LG	
	81		MS24693-C26	DELETED	
	82		MS35649-64	DELETED	
	83		MS35335-58	DELETED	
	84		MS25036-1	DELETED	
	85		1010490-372	DELETED	
	86		1010490-282	DELETED	
	87		QQ-S-571	DELETED	
	88		MIL-F-14256	DELETED	
	89	4	2014670- 11	ADAPTER, CONNECTOR	
	90	1	2014670- 13	ADAPTER, CONNECTOR	
	91	1	1010490-286	SLEEVING, INSULATION (HEAT SHRINKABLE)	
	92	1	1010945- 1	SPLICE-REDUCER.	
		SIZE	CODE IDENT NO.		
		A	80230	6014506	
		SCALE-NONE	REV LTR	*T	SHEET 12 OF 119

WIRING HARNESS A				6014506	S
SEE NOTE		LIST OF MATERIALS			
NUMBER	ITEM	QTY	PART NO.	DESCRIPTION	
	93	864	1010490-082	INSULATION SLEEVING (HEAT SHRINK)	
		SIZE	CODE IDENT NO.		
		A	80230	6014506	
		SCALE-NONE	REV LTR	S	SHEET 13 OF 119

WIRING HARNESS A										6014506	S	
LEAD	WIRE	LEAD	CIRCUIT	PT	TERM.	JKT	SHLD	LEAD	INS	NOTE	ACCESSORY	REMARKS
IDENT	MATL	LG	FROM (A)	(B)	AREA	STRIP	STRIP	CUT	STRIP	ONE,	ITEMS	
			TO		NO.	LG	LG	LG	LG	TIN	FIG	
A	1	16				1.00	.75			68	37	
						1.75	1.50			68	37	
A	1A	5	SHLD A1						.20 NO			
			P3-340						.19 NO		33	BRANCH 6
A	1B	5	P14-6						.13 NO		30	
			SHLD A1						.20 NO			
A	1R		P3-140						.19 NO		34	BRANCH 6
			P14-17						.13 NO		30	
A	1Y		P3-240						.19 NO		34	BRANCH 6
			P14-16						.13 NO		30	
A	2	16				1.00	.75			68	37	
						1.75	1.50			68	37	
A	2A	5	SHLD A2						.20 NO			
			P3-640						.19 NO		33	BRANCH 6
A	2B	5	P14-15						.13 NO		30	
			SHLD A2						.20 NO			
A	2R		P3-440						.19 NO		34	BRANCH 6
			P14-5						.13 NO		30	
A	2Y		P3-540						.19 NO		34	BRANCH 6
			P14-14						.13 NO		30	
A	3	16				1.00	.75			68	37	
						1.75	1.50			68	37	
A	3A	6	SHLD A3						.20 NO			
			P3-341						.19 NO		33	BRANCH 6
SIZE										CODE IDENT NO.	6014506	
A										80230		
SCALE-NONE										REV LTR	S	SHEET 14 OF 119

WIRING HARNESS A										6014506	S
LEAD IDENT	WIRE MATERIAL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS
A	36	5	P14-21 SHLD A3				.13 NO .20 NO			30	
A	3P		P3-141 P14-8				.19 NO .13 NO			30	BRANCH 6
A	3Y		P3-241 P14-20				.19 NO .13 NO			30	BRANCH 6
A	4	16			1.00 .75 1.75 1.50					68 37 68 37	
A	4A	6	SHLD A4 P3-641				.20 NO .19 NO			33	BRANCH 7
A	4B	5	P14-19 SHLD A4				.13 NO .20 NO			30	
A	4R		P3-441 P14-7				.19 NO .13 NO			30	BRANCH 7
A	4Y		P3-541 P14-18				.19 NO .13 NO			30	BRANCH 7
A	5	16			1.00 .75 1.75 1.50					68 37 68 37	
A	5A	5	SHLD A5 P3-342				.20 NO .19 NO			33	BRANCH 6
A	5B	5	P14-11 SHLD A5				.13 NO .20 NO			30	
A	5R		P3-142 P14-10				.19 NO .13 NO			34 30	BRANCH 6

SIZE A	CODE IDENT NO. 80230	6014506
SCALE-NONE	REV LTR	S
		SHEET 15 OF 119

WIRING HARNESS A										6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
A	5Y		P3-242 P14-24				.19 NO .13 NO		34 30	BRANCH 6	
A	6	16			1.00 1.75	.75 1.50		68 68	37 37		
A	6A	5	SHLD A6 P3-642				.20 NO .19 NO		33	BRANCH 7	
A	6B	5	P14-23 SHLD A6				.13 NO .20 NO		30		
A	6R		P3-442 P14-9				.19 NO .13 NO		34 30	BRANCH 7	
A	6Y		P3-542 P14-22				.19 NO .13 NO		34 30	BRANCH 7	
A	7	16			1.00 1.75	.75 1.50		68 68	37 37		
A	7A	6	SHLD A7 P3-343				.20 NO .19 NO		33	BRANCH 7	
A	7B	5	P14-29 SHLD A7				.13 NO .20 NO		30		
A	7R		P3-143 P14-13				.19 NO .13 NO		30	BRANCH 7	
A	7Y		P3-243 P14-28				.19 NO .13 NO		30	BRANCH 7	
A	8	16			1.00 1.75	.75 1.50		68 68	37 37		
SIZE A CODE IDENT NO. 80230										6014506	
SCALE-NONE REV LTR										S	SHEET 16 OF 119

WIRING HARNESS A										6014506	S	
LEAD IDENT	WIRE MTRL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	SHLD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS		
A	8A	6	SHLD A8 P3-643				.20 NO .19 NO		33	BRANCH 7		
A	8B	5	P14-27 SHLD A8				.13 NO .20 NO		30			
A	8R		P3-443 P14-12				.19 NO .13 NO		30	BRANCH 7		
A	8Y		P3-543 P14-26				.19 NO .13 NO		30	BRANCH 7		
A	9	16			1.00 .75 1.75 1.50			68 68	37 37			
A	9A	5	SHLD A9 P3-344				.20 NO .19 NO		33	BRANCH 7		
A	9B	5	P14-54 SHLD A9				.13 NO .20 NO		30			
A	9R		P3-144 P14-31				.19 NO .13 NO		34 30	BRANCH 7		
A	9Y		P3-244 P14-53				.19 NO .13 NO		34 30	BRANCH 7		
A	10	16			1.00 .75 1.75 1.50			68 68	37 37			
A	10A	5	SHLD A10 P3-644				.20 NO .19 NO		33	BRANCH 7		
A	10B	5	P14-52 SHLD A10				.13 NO .20 NO		30			
SIZE A CODE IDENT NO. 80230										6014506		
SCALE-NONE										REV LTR	S	SHEET 17 OF 119

WIRING HARNESS A											6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS	
A	10R		P3-444 P14-30				.19 NO .13 NO			34 30	BRANCH 7	
A	10Y		P3-544 P14-51				.19 NO .13 NO			34 30	BRANCH 7	
A	11	16			1.00 .75 1.75 1.50					68 68	37 37	
A	11A	6	SHLD A11 P3-345				.20 NO .19 NO			33	BRANCH 7	
A	11B	5	P14-57 SHLD A11				.13 NO .20 NO			30		
A	11R		P3-145 P14-34				.19 NO .13 NO			30	BRANCH 7	
A	11Y		P3-245 P14-56				.19 NO .13 NO			30	BRANCH 7	
A	12	16			1.00 .75 1.75 1.50					68 68	37 37	
A	12A	6	SHLD A12 P3-645				.20 NO .19 NO			33	BRANCH 7	
A	12B	5	P14-33 SHLD A12				.13 NO .20 NO			30		
A	12R		P3-445 P14-32				.19 NO .13 NO			30	BRANCH 7	
A	12Y		P3-545 P14-55				.19 NO .13 NO			30	BRANCH 7	

SIZE	CODE IDENT NO.	6014506		
A	80230			
SCALE-NONE		REV LTR	S	SHEET 18 OF 119

LEAD IDENT	WIRE MATERIAL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 13A	6		SHLD A13 P3-346					.20 NO .19 NO			33	BRANCH 7
A 13B	5		P12-57 SHLD A13					.13 NO .20 NO			30	
A 13R			P3-146 P12-81					.19 NO .13 NO			30	BRANCH 7
A 13Y			P3-246 P12-56					.19 NO .13 NO			30	BRANCH 7
A 14	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 14A	6		SHLD A14 P3-646					.20 NO .19 NO			33	BRANCH 7
A 14B	5		P12-03 SHLD A14					.13 NO .20 NO			30	
A 14R			P3-446 P12-32					.19 NO .13 NO			30	BRANCH 7
A 14Y			P3-546 P12-58					.19 NO .13 NO			30	BRANCH 7
A 15	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 15A	6		SHLD A15 P3-347					.20 NO .19 NO			33	BRANCH 7
<div> <div>SIZE</div> <div>A</div> </div> <div> <div>CODE IDENT NO.</div> <div>80230</div> </div> <div>6014506</div>												
<div>SCALE-NONE</div> <div>REV LTR</div> <div>5</div> <div>SHEET 19 OF 119</div>												

MIL-DTL-8838

LEAD IDENT	WIRE MATERIAL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 15B	5		P12-17 SHLD A15					.13 NO .20 NO			30	
A 15R			P3-147 P12-16					.19 NO .13 NO			30	BRANCH 7
A 15Y			P3-247 P12-6					.19 NO .13 NO			30	BRANCH 7
A 16	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 16A	6		SHLD A16 P3-647					.20 NO .19 NO			33	BRANCH 7
A 16B	5		P12-19 SHLD A16					.13 NO .20 NO			30	
A 16R			P3-447 P12-18					.19 NO .13 NO			30	BRANCH 7
A 16Y			P3-547 P12-36					.19 NO .13 NO			30	BRANCH 7
A 17	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 17A	6		SHLD A17 P3-348					.20 NO .19 NO			33	BRANCH 7
A 17B	5		P12-59 SHLD A17					.13 NO .20 NO			30	
A 17R			P3-148 P12-84					.19 NO .13 NO			30	BRANCH 7
<div> <div>SIZE</div> <div>A</div> </div> <div> <div>CODE IDENT NO.</div> <div>80230</div> </div> <div>6014506</div>												
<div>SCALE-NONE</div> <div>REV LTR</div> <div>5</div> <div>SHEET 20 OF 119</div>												

MIL-DTL-8838

LEAD IDENT	WIRE MATERIAL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 17Y			P3-248 P12-60					.19 NO .13 NO			30	BRANCH 7
A 18	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 18A	6		SHLD A18 P3-648					.20 NO .19 NO			33	BRANCH 7
A 18B	5		P12-61 SHLD A18					.13 NO .20 NO			30	
A 18R			P3-448 P12-62					.19 NO .13 NO			30	BRANCH 7
A 18Y			P3-548 P12-38					.19 NO .13 NO			30	BRANCH 7
A 19	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 19A	6		SHLD A19 P3-349					.20 NO .19 NO			33	BRANCH 7
A 19B	5		P12-20 SHLD A19					.13 NO .20 NO			30	
A 19R			P3-149 P12-21					.19 NO .13 NO			30	BRANCH 7
A 19Y			P3-249 P12-8					.19 NO .13 NO			30	BRANCH 7
A 20	8											
<div> <div>SIZE</div> <div>A</div> </div> <div> <div>CODE IDENT NO.</div> <div>80230</div> </div> <div>6014506</div>												
<div>SCALE-NONE</div> <div>REV LTR</div> <div>5</div> <div>SHEET 21 OF 119</div>												

MIL-DTL-8838

LEAD IDENT	WIRE MATERIAL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 20R			P2-H11 P3-428					.19 NO .19 NO			33	BRANCH 3 BRANCH 6
A 20Y			P2-K11 P3-528					.19 NO .19 NO			33	BRANCH 3 BRANCH 6
A 21	8											
A 21R			P2-H10 P3-228					.19 NO .19 NO			33	BRANCH 3 BRANCH 6
A 21Y			P2-K10 P3-328					.19 NO .19 NO			33	BRANCH 3 BRANCH 6
A 22	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 22A	5		SHLD A22 P2-833					.20 NO .19 NO			33	BRANCH 4
A 22B	5		P3-329 SHLD A22					.19 NO .20 NO			33	BRANCH 6
A 22R			P2-835 P3-129					.19 NO .19 NO			34	BRANCH 4 BRANCH 6
A 22Y			P2-834 P3-229					.19 NO .19 NO			34	BRANCH 4 BRANCH 6
A 23	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 23A	5		SHLD A23 P2-033					.20 NO .19 NO			33	BRANCH 4
<div> <div>SIZE</div> <div>A</div> </div> <div> <div>CODE IDENT NO.</div> <div>80230</div> </div> <div>6014506</div>												
<div>SCALE-NONE</div> <div>REV LTR</div> <div>5</div> <div>SHEET 22 OF 119</div>												

MIL-DTL-8838

WIRING HARNESS A										6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT POINT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
A 33	2		P2-H8 P3-136				.19 NO .19 NO		33 33	BRANCH 3 BRANCH 6	
	2		P2-K8 P3-336				.19 NO .15 NO		33 33	BRANCH 3 BRANCH 6	
A 35	4		P3-113 P4-514				.19 NO .19 NO		34 34	O, BRANCH 5 BRANCH 8	
A 36	4		P3-612 P4-314				.19 NO .19 NO		34 34	O, BRANCH 5 BRANCH 8	
A 37	4		P3-512 P4-414				.19 NO .19 NO		34 34	O, BRANCH 5 BRANCH 8	
A 38	4		P3-412 P4-614				.19 NO .19 NO		34 34	O, BRANCH 5 BRANCH 8	
A 39	4		P3-312 P4-313				.19 NO .19 NO		34 34	O, BRANCH 5 BRANCH 8	
A 40	4		P3-112 P4-412				.19 NO .19 NO		34 34	O, BRANCH 5 BRANCH 8	
A 41	16					1.00 1.00	.75 .75		68 68	37 37	
A 41A	5		SHLD A41 P3-111				.20 NO .19 NO				
A 41B	5		E4 SHLD A41				.19 NO .20 NO		33	BRANCH 5	
A 41R			P3-311 P4-515				.19 NO .19 NO		34 34	BRANCH 5 BRANCH 8	
SIZE								CODE IDENT NO.	6014506		
A								80230			
SCALE-NONE								REV LTR	S	SHEET 27 OF 119	

WIRING HARNESS A										6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
A 41Y			P3-211 P4-615				.19 NO .19 NO		34 34	BRANCH 5 BRANCH 8	
A 42	16			1.00 1.00	.75 .75			68 68	37 37		
A 42A	5		SHLD A42 P3-410				.20 NO .19 NO		33	BRANCH 5	
A 42B	5		E7 SHLD A42				.19 NO .20 NO				
A 42R			P3-610 P4-332				.19 NO .19 NO		34 34	BRANCH 5 BRANCH 9	
A 42Y			P3-510 P4-432				.19 NO .19 NO		34 34	BRANCH 5 BRANCH 9	
A 43	16			1.00 1.00	.75 .75			68 68	37 37		
A 43A	5		SHLD A43 P3-110				.20 NO .19 NO		33	BRANCH 5	
A 43B	5		E7 SHLD A43				.19 NO .20 NO				
A 43R			P3-310 P4-330				.19 NO .19 NO		34 34	BRANCH 5 BRANCH 9	
A 43Y			P3-210 P4-430				.19 NO .19 NO		34 34	BRANCH 5 BRANCH 9	
A 44	16			1.00 1.00	.75 .75			63 68	37 37		
SIZE										CODE IDENT NO.	6014506
A										80230	
SCALE-NONE										REV LTR	
S										SHEET 28 OF 119	

WIRING HARNESS A										6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
A 44A	5		SHLD A44 P3-409				.20 NO .19 NO		33	BRANCH 5	
A 44B	5		E6 SHLD A44				.19 NO .20 NO				
A 44R			P3-609 P4-329				.19 NO .19 NO		34 34	BRANCH 5 BRANCH 9	
A 44Y			P3-509 P4-429				.19 NO .19 NO		34 34	BRANCH 5 BRANCH 9	
A 45	16				1.00 1.00	.75 .75			68 68	37 37	
A 45A	5		SHLD A45 P3-109				.20 NO .19 NO		33	BRANCH 5	
A 45B	5		E6 SHLD A45				.19 NO .20 NO				
A 45R			P3-609 P4-328				.19 NO .19 NO		34 34	BRANCH 5 BRANCH 9	
A 45Y			P3-209 P4-428				.19 NO .19 NO		34 34	BRANCH 5 BRANCH 9	
A 46	16				1.00 1.00	.75 .75			68 68	37 37	
A 46A	5		SHLD A46 P3-408				.20 NO .19 NO		33	BRANCH 5	
A 46B	5		E7 SHLD A46				.19 NO .20 NO				
SIZE										CODE IDENT NO.	6014506
A										80230	
SCALE-NONE										REV LTR	
S										SHEET 29 OF 119	

WIRING HARNESS A										6014506	S
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS
A 46R			P3-608 P4-334				.19 NO .19 NO			34 34	BRANCH 5 BRANCH 9
A 46Y			P3-508 P4-434				.19 NO .19 NO			34 34	BRANCH 5 BRANCH 9
A 47	16				1.00 1.00	.75 .75				68 68	37 37
A 47A	5		SHLD A47 P3-108				.20 NO .19 NO			33	BRANCH 5
A 47B	5		E7 SHLD A47				.19 NO .20 NO			70	
A 47R			P3-308 P4-333				.19 NO .19 NO			34 34	BRANCH 5 BRANCH 9
A 47Y			P3-208 P4-433				.19 NO .19 NO			34 34	BRANCH 5 BRANCH 9
A 48	16				1.00 1.00	.75 .75				68 68	37 37
A 48A	5		SHLD A48 P3-407				.20 NO .19 NO			33	BRANCH 5
A 48B	5		E8 SHLD A48				.19 NO .20 NO				
A 48R			P3-607 P4-338				.19 NO .19 NO			34 34	BRANCH 5 BRANCH 9
A 48Y			P3-507 P4-438				.19 NO .19 NO			34 34	BRANCH 5 BRANCH 9

SIZE	CODE IDENT NO.	6014506
A	80230	
SCALE-NONE REV LTR S		
SHEET 30 OF 119		

- NOTE
NUMBER DESCRIPTION
- 1 SHIELD TERMINATION FIGURES ARE PER ND1002071 FOR FIGURE 6B AND ND1002042 FOR FIGURE 7.
 - 2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - 3 INTERCONNECT LIST FOR THIS HARNESS IS 6014505.
 - 4 PARTIAL CIRCUIT POINTS ARE SHOWN. PREFIX WITH UNIT NUMBER 56 FOR COMPLETE CIRCUIT POINT.
 - 5 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES
A - SHIELD LEAD, COLOR OR MARKED LETTER
B - SHIELD LEAD ON FROM END
G - GREEN
K - BLACK
L - BLUE
N - BROWN
R - RED
W - WHITE
Y - YELLOW
 - 6 ASTERISK DENOTES LOWER CASE LETTER.
 - 7 GRID MODULE ON PICTURE SHEET IS 1 INCH TRUE POSITION.
 - 8 UNLESS OTHERWISE SPECIFIED, FEATURE CENTER LINES ON PICTURE SHEET ARE LOCATED WITHIN $\pm .25$. ENDS OF HOOKUP WIRLS OR ACCESSORIES ARE LOCATED WITHIN $\pm .12$.
 - 9 VENDOR ITEM-SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING
 - 10 CRIMP CONTACTS PER ND1002032

SIZE A	CODE IDENT NO. 60230	6014507
SCALE-NONE	REV LTR	R
SHEET	2 OF	42

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- NOTE
NUMBER DESCRIPTION
- 11 ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND/OR SEALING PLUGS AS FOLLOWS
CONNECTORS 56P15, 16 AND 18 USE ITEM NUMBERS 21 AND 27
CONNECTOR 56P17 USE ITEM NUMBERS 23 AND 51
CONNECTOR 56P19 USE ITEM NUMBER 25
CONNECTORS 56P20 AND 21 USE ITEM NUMBERS 24 AND 28
CONNECTOR 56J1 USE ITEM NUMBERS 22 AND 27
 - 12 LACE HARNESS PER ND1002032 USING, ITEM NUMBER 43.
 - 13 APPLY BONDING MATERIAL PER ND1002187, TYPE 1, USING ITEMS 56 AND 57 TO THE THREADED PORTION OF CONNECTOR AND TO THE THREADED PORTION OF THE ADAPTER PRIOR TO ASSEMBLY.
 - 14 ALL SHIELDED TERMINATIONS SHALL BE LOCATED BELOW REFERENCE LINE A. THERE SHALL BE NO EXPOSED CONDUCTORS OR ACCESSORIES AT THE SURFACE OF THE POTTING COMPOUND.
 - 15 BEFORE LACING HARNESS, APPLY 2 TURNS OF TAPE ITEM 45 TO INDICATE CABLE CLAMP LOCATION.
 - 16 WRAP TAPE AROUND HARNESS IN AREA SHOWN, AS REQUIRED, TO BUILD UP DIAMETER TO FIT SHELL HOLE.
 - 17 MARK CONNECTOR WITH REFERENCE DESIGNATION AS SHOWN $\pm .12$ HIGH, BLACK, PER ND1002019. CENTRALIZE.
 - 18 DELETED
 - 19 MARK CHARACTERS $\pm .12$ HIGH, BLACK, PER ND1002019. SERIALIZE PER ND1002023.

SIZE A	CODE IDENT NO. 80230	6014507
SCALE-NONE	REV LTR	S
SHEET	3 OF	42

MIL 2084 9-65

- NOTE
NUMBER DESCRIPTION
- 20 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 1/2 OHM, EXCEPT FOR CONDUCTORS USING ITEM NUMBER 10. THESE SHALL BE LESS THAN 2 OHMS. TEST PER MIL-STD-202, METHOD 303.
 - 21 INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 500 VDC APPLIED BETWEEN
A. THE ASSEMBLY PINS AND STRUCTURE GROUND, EXCEPT THOSE PINS ELECTRICALLY CONNECTED TO STRUCTURE GROUND.
B. EACH PIN AND ALL OTHER PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.
TEST PER MIL-STD-202, METHOD 302, EXCEPT ELECTRIFICATION TIME NOT APPLICABLE.
 - 22 DELETED
 - 23 ENCAPSULATE BACK OF CONNECTORS AND JUNCTION BOX ASSY PER ND1002236 USING ITEMS 46 AND 55.
 - 24 CONDUCTORS SHALL ENTER CONNECTOR 56P19 THROUGH THE BRANCH SPECIFIED IN THE REMARKS COLUMN.
 - 25 PERFORM WORKMANSHIP VIBRATION
A. SINUSOIDAL SWEEP AT 3.5 G RMS. LIMITED TO 0.3 INCH PEAK TO PEAK DISPLACEMENT, FROM 10 TO 2000 CPS AT A RATE OF 4 OCTAVES PER MINUTE.
B. VIBRATION ALONG THE X AXIS OF THE SPACE CRAFT.
C. MONITOR FOR DISCONTINUITIES OF 100 SECONDS OR GREATER DURING VIBRATION.
D. COMPLETE CONTINUITY AND INSULATION RESISTANCE TESTING MUST BE ACCOMPLISHED AFTER VIBRATION.

SIZE A	CODE IDENT NO. 80230	6014507
SCALE-NONE	REV LTR	S
SHEET	4 OF	42

MIL 2084 9-65

- NOTE
NUMBER DESCRIPTION
- 26 ASSEMBLE INSULATION SLEEVE ITEM 64 OVER EACH ELECTRICALLY CONNECTED PIN OF CONNECTOR P19. POSITION SLEEVING FLUSH TO TOP OF NYLON INSULATOR.
- LEAD TOLERANCE CHART
- | | LEAD LG | JKT STRIP LG | SHIELD STRIP LG | LEAD CUT LG | INS STRIP LG |
|----------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| UNDER 3 INCHES | $\pm .12 \pm .00$ | $\pm .06 \pm .06$ | $\pm .06 \pm .06$ | $\pm .06 \pm .06$ | $\pm .06 \pm .00$ |
| 3 INCH TO 3 FT | $\pm .50 \pm .00$ | $\pm .25 \pm .25$ | $\pm .25 \pm .25$ | $\pm .25 \pm .25$ | |
| 3 FT TO 10 FT | $\pm 1.00 \pm .00$ | | | | |
| 10 FT AND OVER | $\pm 2.00 \pm .00$ | | | | |

SIZE A	CODE IDENT NO. 80230	6014507
SCALE-NONE	REV LTR	R
SHEET	5 OF	42

MIL 2084 9-65

SEE NOTE			LIST OF MATERIALS	
NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	6014507-001	WIRE PER 1010789-006, 22AWG, YEL, 10 FT TOT LG
	2	1	6014507-002	WIRE PER 1010789-001, 24AWG, YEL, 15 FT TOT LG
	3	1	6014507-003	WIRE PER 1010789-016, 26AWG, YEL, 15 FT TOT LG
	4	1	6014507-004	WIRE PER 1010789-008, 22AWG, YEL, RED, 55 FT TOTAL LG
	5	1	6014507-005	WIRE PER 1010789-003, 24AWG, YEL, RED, 15 FT TOTAL LG
	6	1	6014507-006	WIRE PER 1010789-017, 26AWG, YEL, RED, 20 FT TOT LG
	7	1	6014507-007	WIRE PER 1010789-012, YEL JKT, 24AWG YEL, RED, 10 FT TOT LG
	8	1	6014507-008	WIRE PER 1010789-015, YEL JKT, 26AWG YEL, RED, 90 FT TOT LG
	9	1	6014507-009	WIRE PER 1010789-009, 22AWG YEL, RED, GRN, 10 FT TOT LG
	10	1	6014507-010	WIRE PER 1010707-1, RED JKT, 29AWG RED WHT BLU 15 FT TOT LG
	11	1	6014507-011	WIRE PER 1010789-005 24AWG, YEL, RED, GRN, BRN 5 FT TOT LG
	12	1	6014507-012	WIRE PER 1010789-002, 24AWG BLK 80 FT TOT LG
9	13	1	1010929-103	CONNECTOR PLUG ELECTRICAL
9	14	1	1010929-104	CONNECTOR PLUG ELECTRICAL

SIZE	CODE IDENT NO.	6014507
A	80230	
SCALE-NONE	REV LTR	R
SHEET	6 OF 42	

SEE NOTE			LIST OF MATERIALS	
NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	15	1	1010929-109	CONNECTOR PLUG ELECTRICAL
9	16	1	1010930-014	CONNECTOR RECEPTACLE ELECTRICAL
9	17	1	1010947-105	CONNECTOR PLUG ELECTRICAL
9	18	1	1010965-001	CONNECTOR PLUG ELECTRICAL
9	19	1	1010965-002	CONNECTOR PLUG ELECTRICAL
	20	1	6014535-011	CONNECTOR ASSEMBLY ELECTRICAL
9	21	X	1010770- 1	CONTACTS SUPPLIED WITH CONNECTOR 1010929
9	22	X	1010770- 2	CONTACTS SUPPLIED WITH CONNECTOR 1010930
	23	X	1010964-001	CONTACTS SUPPLIED WITH CONNECTOR 1010947
9	24	122	1010781- 1	CONTACT, SOCKET
9	25	109	1010955-001	CONTACT, ELECTRICAL MINIATURE, MALE
9	26	63	1010955-002	CONTACT, ELECTRICAL MINIATURE, MALE
9	27	78	1010958-001	PLUG PROTECTIVE SEALING
9	28	24	1010984	PLUG PROTECTIVE SEALING
9	29	74	1010402- 2	SLEEVE, SOLDER
9	30	21	1010490-110	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
9	31	6	1010490-112	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
9	32	18	1010979- 2	PIN, TAPER

SIZE	CODE IDENT NO.	6014507
A	80230	
SCALE-NONE	REV LTR	R
SHEET	7 OF 42	

SEE NOTE			LIST OF MATERIALS	
NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	33	2	2014670- 4	ADAPTER, SUBMINIATURE CONN.
	34	1	2014670- 6	ADAPTER, SUBMINIATURE CONN.
	35	1	2014670- 7	ADAPTER, SUBMINIATURE CONN.
	36	1	2014670- 9	ADAPTER, SUBMINIATURE CONN.
	42		1010811-002	DELETED
9	43	AR	1012507-004	TAPE, LACING
	44	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1 INCH WIDE
	45	AR	MIL-T-23594	TAPE, TEFLON, TYPE II .25 INCH WIDE
9	46	AR	1012503	COMPOUND, POTTING, POLYURETHANE
9	47	16	1010862	BUSHING, SLEEVE
9	48	1	1010945- 1	REDUCER, SPLICE
9	49	1	1012534- 95	INSULATION SLEEVING ELECTRICAL HEAT SHRINK
	50	1	2014670- 1	ADAPTER SUBMINIATURE CONN.
9	51	7	1010948- 2	PLUG PROTECTIVE, SEALING
	52	1	6010654	JUNCTION BOX ASSEMBLY
	53		1006277	DELETED
	54		1008822	DELETED
9	55	A	1012504	PRIMER, METAL PARTS

SIZE	CODE IDENT NO.	6014507
A	80230	
SCALE-NONE	REV LTR	S
SHEET	8 OF 42	

SEE NOTE			LIST OF MATERIALS	
NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	56	AR	1010661	EPOXY RESIN
9	57	AR	1010679	ADHESIVE ACTIVATOR
	58	1	6014507- 13	WIRE PER 1010789-011, 24AWG, YEL, YEL JKT, 5 FT TOT LG.
	59	1	2014670- 14	ADAPTER, CONNECTOR
	60	1	2021203	TERMINAL LUG, SOLDER
	61	1	MS35333-69	WASHER, LOCK
9	62	1	1006783- 93	SCREW, BUTTON HD
9	63	5	1010763- 2	SLEEVE, SOLDER
	64	119	1010490-114	INSULATION SLEEVING (HEAT SHRINKABLE)
	65	AR	SN 60 WRAP 2	SOLDER QQ-S-571
	66	AR	SN 60 SN	SOLDER QQ-S-571
	67	AR	MIL-F-14256 TYPE A	FLUX

SIZE	CODE IDENT NO.	6014507
A	80230	
SCALE-NONE	REV LTR	S
SHEET	9 OF 42	

WIRING HARNESS B											6014507		R		
LEAD IDENT	WIRE MTRL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH			
B	1	7			1.75 1.00	1.50 .75				68 68	29 29				
B	1A	12	SHLD B1 P18-17					.20 NO .13 NO			21				
B	1B	12	P19-A12 SHLD B1					.19 NO .20 NO			25	2			
B	1C		P18-16 P19-A10					.13 NO .19 NO			21 25	1			
B	1Y		P18-33 P19-A11					.13 NO .19 NO			21 25	2			
B	2	8			1.75 1.00	1.50 .75				68 68	29 29				
B	2A	12	SHLD B2 P18-9					.20 NO .13 NO			21				
B	2R	12	P19-A6 SHLD B2					.19 NO .20 NO			25	1			
B	2R		P18-22 P19-A4					.13 NO .19 NO			21 26	1			
B	2Y		P18-21 P19-A5					.13 NO .19 NO			21 26	1			
B	3	8			1.75 1.00	1.50 .75				68 68	29 29				
B	3A	12	SHLD B3 P18-24					.20 NO .13 NO			21				
SIZE											CODE IDENT		6014507		
A											NO. 80230				
SCALE-NONE											REV LTR		R	SHEET 10	OF 42

WIRING HARNESS B											6014507		R
LEAD IDENT	WIRE MAYL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH	
B	3R	12	P19-B6 SHLD B3					.19 NO .20 NO			25	1	
B	3R		P18-10 P19-B4					.13 NO .19 NO			21 26	1	
B	3Y		P18-23 P19-B5					.13 NO .19 NO			21 26	1	
B	4	8			1.75 1.00	1.50 .75				68 68	29 29		
B	4A	12	SHLD B4 P18-26					.20 NO .13 NO			21		
B	4B	12	P19-C6 SHLD B4					.19 NO .20 NO			25	1	
B	4R		P18-11 P19-C4					.13 NO .19 NO			21 26	1	
B	4Y		P18-25 P19-C5					.13 NO .19 NO			21 26	1	
B	5	8			1.75 1.00	1.50 .75				68 68	29 29		
B	5A	12	SHLD B5 P18-13					.20 NO .13 NO			21		
B	5R	12	P19-D6 SHLD B5					.19 NO .20 NO			25	1	
B	5R		P18-12 P19-D4					.13 NO .19 NO			21 26	1	
SIZE		CODE IDENT		6014507									
A		NO. 80230											
SCALE-NONE				REV LTR				R		SHEET 11 OF 42			

WIRING HARNESS B											6014507		R
LEAD IDENT	WIRE MTRL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH	
B	5Y		P18-27 P19-05					.13 NO .19 NO			21 26	1	
B	6	8			1.75 1.00	1.50 .75				68 68	29 29		
B	6A	12	SHLD B6 P18-30					.20 NO .13 NO			21		
B	6R	12	P19-F6 SHLD B6					.19 NO .20 NO			25	1	
B	6R		P18-14 P19-F4					.13 NO .19 NO			21 26	1	
B	6Y		P18-29 P19-F5					.13 NO .19 NO			21 26	1	
B	7	8			1.75 1.00	1.50 .75				68 68	29 29		
B	7A	12	SHLD B7 P18-32					.20 NO .13 NO			21		
B	7R	12	P19-G6 SHLD B7					.19 NO .20 NO			25	1	
B	7R		P18-15 P19-G4					.13 NO .19 NO			21 26	1	
B	7Y		P18-31 P19-G5					.13 NO .19 NO			21 26	1	
B	8	8			1.75 1.00	1.50 .75				68 68	29 29		
SIZE CODE IDENT													
A		NO. 80230		6014507									
SCALE-NONE				REV LTR				R				SHEET 12 OF 42	

WIRING HARNESS B										6014507		R	
LEAD IDENT	WIRE MTRL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH	
B	8A	12	SHLD B8 P18-38					.20 NO .13 NO			21		
B	8B	12	P19-F13 SHLD B8					.19 NO .20 NO			25	2	
B	8R		P18-63 P19-G13					.13 NO .19 NO			21 26	2	
B	8Y		P18-62 P19-D13					.13 NO .19 NO			21 26	2	
B	9	4											
B	9R		P17-E* P19-A24					.19 NO .19 NO			25	2	
B	9Y		P17-I* P19-A23					.19 NO .19 NO			25	2	
B	10	4											
B	10R		P17-F* P19-B26					.19 NO .19 NO			25	2	
B	10Y		P17-G* P19-B25					.19 NO .19 NO			25	2	
B	11	4											
B	11R		P17-Y P19-C26					.19 NO .19 NO			25	2	
SIZE										CODE IDENT		6014507	
A										NO. 80230			
SCALE-NONE										REV LTR		R	SHEET 13 OF 42

WIRING HARNESS B													6014507	R
LEAD IDENT	WIRE MATERIAL	LEAD LG	CIRCUIT FROM (A) TO (B)	PT (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH			
B 26L			P19-F17 P20-3					.19 NO .13 NO		26 24, 47	2			
B 26R			P19-C17 P20-1					.19 NO .13 NO		26 24, 47	2			
B 26W			P19-D17 P20-2					.19 NO .13 NO		26 24, 47	2			
B 27 10						1.00 1.75	.75 1.50		68 7	63 31				
B 27A 12			SHLD B27 P19-B18					.20 NO .19 NO		25	2			
B 27L			P19-F18 P20-14					.19 NO .13 NO		26 24, 47	2			
B 27W			P19-C18 P20-12					.19 NO .13 NO		26 24, 47	2			
B 27W			P19-D18 P20-13					.19 NO .13 NO		26 24, 47	2			
B 28 10						1.00 1.75	.75 1.50		68 7	63 31				
B 28A 12			SHLD B28 P19-B19					.20 NO .19 NO		25	2			
B 28L			P19-F19 P20-61					.19 NO .13 NO		26 24, 47	2			
B 28R			P19-C19 P20-59					.19 NO .13 NO		26 24, 47	2			
SIZE			CODE IDENT NO. 80230			6014507								
A														
SCALE-NONE			REV LTR			R			SHEET 18 OF 42					

WIRING HARNESS B													6014507	R
LEAD IDENT	WIRE MATERIAL	LEAD LG	CIRCUIT FROM (A) TO (B)	PT (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH			
B 28W			P19-D19 P20-60					.19 NO .13 NO		26 24, 47	2			
B 29 8						1.75 1.00	1.50 .75		68 68	29 29				
B 29A 12			SHLD B29 P18-42					.20 NO .13 NO		21				
B 29B 12			P19-G12 SHLD B29					.19 NO .20 NO		25	2			
B 29R			P18-41 P19-G10					.13 NO .19 NO		21 26	1			
B 29Y			P18-66 P19-G11					.13 NO .19 NO		21 26	2			
B 30 8						1.75 1.00	1.50 .75		68 68	29 29				
B 30A 12			SHLD B30 P18-71					.20 NO .13 NO		21				
B 30B 12			P19-A9 SHLD B30					.19 NO .20 NO		25	1			
B 30R			P18-46 P19-A7					.13 NO .19 NO		21 26	1			
B 30Y			P18-70 P19-A8					.13 NO .19 NO		21 26	1			
B 31 8						1.75 1.00	1.50 .75		68 68	29 29				
SIZE			CODE IDENT NO. 80230			6014507								
A														
SCALE-NONE			REV LTR			R			SHEET 19 OF 42					

WIRING HARNESS B													6014507	R
LEAD IDENT	WIRE MATERIAL	LEAD LG	CIRCUIT FROM (A) TO (B)	PT (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH			
B 31A 12			SHLD B31 P18-47					.20 NO .13 NO		21				
B 31B 12			P19-B9 SHLD B31					.19 NO .20 NO		25	1			
B 31R			P18-72 P19-B7					.13 NO .19 NO		21 26	1			
B 31Y			P18-48 P19-B8					.13 NO .19 NO		21 26	1			
B 32 8						1.75 1.00	1.50 .75		68 68	29 29				
B 32A 12			SHLD B32 P18-80					.20 NO .13 NO		21				
B 32F 12			P19-C9 SHLD B32					.19 NO .20 NO		25	1			
B 32R			P18-55 P19-C7					.13 NO .19 NO		21 26	1			
B 32Y			P18-79 P19-C8					.13 NO .19 NO		21 26	1			
B 33 8						1.75 1.00	1.50 .75		68 68	29 29				
B 33A 12			SHLD B33 P18-40					.20 NO .13 NO		21				
B 33B 12			P19-D9 SHLD B33					.19 NO .20 NO		25	1			
SIZE			CODE IDENT NO. 80230			6014507								
A														
SCALE-NONE			REV LTR			R			SHEET 20 OF 42					

WIRING HARNESS B													6014507	R
LEAD IDENT	WIRE MATERIAL	LEAD LG	CIRCUIT FROM (A) TO (B)	PT (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH			
B 33R			P18-64 P19-D7					.13 NO .19 NO		21 26	1			
B 33Y			P18-65 P19-D8					.13 NO .19 NO		21 26	1			
B 34 8						1.75 1.00	1.50 .75		68 68	29 29				
B 34A 12			SHLD B34 P18-52					.20 NO .13 NO		21				
B 34B 12			P19-F9 SHLD B34					.19 NO .20 NO		25	1			
B 34R			P18-77 P19-F7					.13 NO .19 NO		21 26	1			
B 34Y			P18-76 P19-F8					.13 NO .19 NO		21 26	1			
B 35 8						1.75 1.00	1.50 .75		68 68	29 29				
B 35A 12			SHLD B35 P18-54					.20 NO .13 NO		21				
B 35B 12			P19-G9 SHLD B35					.19 NO .20 NO		25	1			
B 35R			P18-53 P19-G7					.13 NO .19 NO		21 26	1			
B 35Y			P18-78 P19-G8					.13 NO .19 NO		21 26	1			
SIZE			CODE IDENT NO. 80230			6014507								
A														
SCALE-NONE			REV LTR			R			SHEET 21 OF 42					

WIRING HARNESS B											6014507		R
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT P T FROM (A) TO (B)	TERM. JKT AREA	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS BRANCH	
B	63R		P21-45 T82-B3					.13 NO .25 NO			24		
H	63Y		P21-46 T82-C3					.13 NO .25 NO			24		
B	64	8			1.75 1.25	1.50 1.00					7 68	30 29	
B	64B	12	T82-A4 SHLD B64					.25 NO .20 NO					
B	64R		P21-47 T82-B4					.13 NO .25 NO			24		
B	64Y		P21-48 T82-C4					.13 NO .25 NO			24		
B	65	8			1.75 1.75	1.50 1.50					68 7	29 30	
B	65A	12	SHLD B65 P16-52					.20 NO .13 NO			21		
B	65R		P16-30 P21-51					.13 NO .13 NO			21 24		
B	65Y		P16-51 P21-52					.13 NO .13 NO			21 24		
B	66	8			1.75 1.75	1.50 1.50					68 7	29 30	
B	66A	12	SHLD B66 P16-54					.20 NO .13 NO			21		

SIZE	CODE IDENT NO. 60230	6014507	
A			
SCALE-NONE		REV LTR	R
		SHEET	30 OF 42

WIRING HARNESS B											6014507		R
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT P: FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS BRANCH	
B	66R		P16-31 P21-53					.13 NO .13 NO			21 24		
B	66Y		P16-53 P21-54					.13 NO .13 NO			21 24		
B	67	8			1.75 1.25	1.50 1.00				7 68	30 29		
B	67B	12	T82-A5 SHLD B67					.25 NO .20 NO					
B	67R		P21-55 T82-B5					.13 NO .25 NO			24		
B	67Y		P21-56 T82-C5					.13 NO .25 NO			24		
B	68	8			1.75 1.25	1.50 1.00				7 68	30 29		
B	68B	12	T82-A6 SHLD B68					.25 NO .20 NO					
B	68R		P21-57 T82-B6					.13 NO .25 NO			24		
B	68Y		P21-58 T82-C6					.13 NO .25 NO			24		
B	69	8			1.75 1.25	1.50 1.00				7 68	30 29		
B	69B	12	T82-A1 SHLD B69					.25 NO .20 NO					

SIZE	CODE IDENT NO.	6014507
A	80230	
SCALE-NONE		REV LTR
R		SHEET 31 OF 42

WIRING HARNESS 6014507											6014507		R
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT FROM (A) TO (B)	PT (B)	TERM. NO.	JKT AREA LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS BRANCH
B	69R		P15-3 T82-B1						.13 NO .25 NO			21	
B	69Y		P15-10 T82-C1						.13 NO .25 NO			21	
B	70	8				1.75 1.25	1.50 1.00			7 68		30 29	
B	70B	12	T82-A2 SHLD B70						.25 NO .20 NO				
B	70R		P15-12 T82-B2						.13 NO .25 NO			21	
B	70Y		P15-13 T82-C2						.13 NO .25 NO			21	
B	71	8				1.75 1.25	1.50 1.00			7 68		30 29	
B	71B	12	T82-A3 SHLD B71						.25 NO .20 NO				
B	71R		P15-7 T82-B3						.13 NO .25 NO			21	
B	71Y		P15-18 T82-C3						.13 NO .25 NO			21	
B	72	8				1.75 1.25	1.50 1.00			7 68		30 29	
B	72B	12	T82-A4 SHLD B72						.25 NO .20 NO				

SIZE	CODE IDENT NO.	6014507	
A	80230		
SCALE-NONE		REV LTR	R
		SHEET	32 OF 42

WIRING HARNESS B											6014507		R
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	NOTE ONE, FIG	TIN	ACCESSORY ITEMS	REMARKS BRANCH		
B	72R		P15-8 T82-B4				.13 NO .25 NO			21			
B	72Y		P15-9 T82-C4				.13 NO .25 NO			21			
B	73	8			1.75 1.25	1.50 1.00				7 68	30 29		
B	73B	12	T82-A5 SHLD B73				.25 NO .20 NO						
B	73R		P15-5 T82-B5				.13 NO .25 NO			21			
B	73Y		P15-14 T82-C5				.13 NO .25 NO			21			
B	74	8			1.75 1.25	1.50 1.00				7 68	30 29		
B	74B	12	T82-A6 SHLD B74				.25 NO .20 NO						
B	74R		P15-16 T82-B6				.13 NO .25 NO			21			
B	74Y		P15-17 T82-C6				.13 NO .25 NO			21			
B	75	4											
B	75R		P16-35 P20-40				.13 NO .13 NO			21 24			

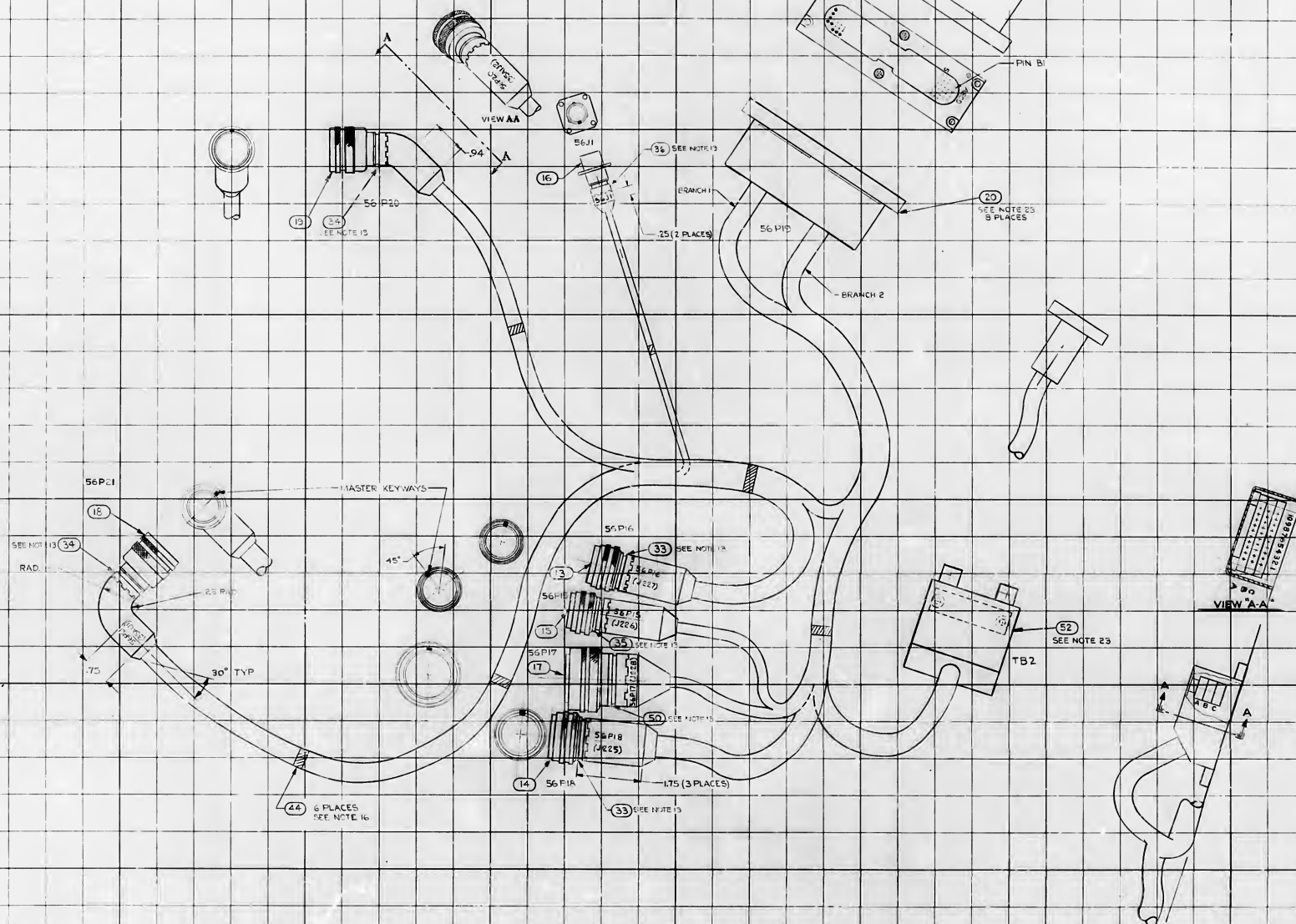
SIZE	CODE IDENT NO.	6014507	
A	80230		
SCALE-NONE		REV LTR	R
		SHEET	33 OF 42

WIRING HARNESS B														6014507		R
LEAD IDENT	WIRE MATL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH				
B 75Y			P16-36 P20-39					.13 NO .13 NO			21 24					
B 76	4															
B 76R			P16-37 P20-42					.13 NO .13 NO			21 24					
B 76Y			P16-38 P20-41					.13 NO .13 NO			21 24					
B 77	4															
B 77R			P16-39 P20-52					.13 NO .13 NO			21 24					
B 77Y			P16-40 P20-51					.13 NO .13 NO			21 24					
B 78	4															
B 78R			P18-7 P19-A22					.13 NO .19 NO			21 25	2				
B 78Y			P18-8 P19-B22					.13 NO .19 NO			21 25	2				
B 82	6															
B 82R			P16-47 P21-29					.13 NO .13 NO			21 24					
														SIZE A	CODE IDENT NO. 80230	6014507
														SCALE-NONE	REV LTR	R SHEET 34 OF 42

WIRING HARNESS B														6014507		R
LEAD IDENT	WIRE MATL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH				
B 82Y			P16-48 P21-30					.13 NO .13 NO			21 24					
B 83	3		P16-49 P21-26					.13 NO .13 NO			21 24					
B 85	1		P17-L P17-M					.19 NO .19 NO			23 23					
B 87	1		P17-A* P17-B*					.19 NO .19 NO			23 23					
B 89	4															
B 89R			P17-F* P19-A26					.19 NO .19 NO			23 25	2				
B 89Y			P17-G* P19-A25					.19 NO .19 NO			23 25	2				
B 90	4															
B 90R			P17-Y P19-G26					.19 NO .19 NO			23 25	2				
B 90Y			P17-Z P19-G25					.19 NO .19 NO			23 25	2				
B 91	4															
B 91R			P17-U P19-F26					.19 NO .19 NO			25	2				
														SIZE A	CODE IDENT NO. 80230	6014507
														SCALE-NONE	REV LTR	R SHEET 35 OF 42

WIRING HARNESS B														6014507		R
LEAD IDENT	WIRE MATL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH				
B 91Y			P17-D* P19-F25					.19 NO .19 NO			25	2				
B 92	4															
B 92R			P17-U P19-D26					.19 NO .19 NO			23 25	2				
B 92Y			P17-D* P19-D25					.19 NO .19 NO			23 25	2				
B 93	6															
B 93R			P16-43 P21-31					.13 NO .13 NO			21 24					
B 93Y			P16-44 P21-32					.13 NO .13 NO			21 24					
B 94	3		P16-45 P21-20					.13 NO .13 NO			21 24					
B 95	2		J1-11 P21-19					.13 NO .13 NO			22 24					
B 98	1		P19-D15 E3					.19 NO .19 NO			25 48, 49	2				
B 99			DELETED													
B 101	8							1.75 1.25	1.50 1.00		68 68	29 29				
														SIZE A	CODE IDENT NO. 80230	6014507
														SCALE-NONE	REV LTR	R SHEET 36 OF 42

WIRING HARNESS B														6014507		R
LEAD IDENT	WIRE MATL	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	SHLD STRIP LG	LEAD STRIP LG	CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH				
B 101A	12		SHLD B101 P16-21					.20 NO .13 NO			21					
B 101B	12		TB2-A2 SHLD B101					.25 NO .20 NO			32					
B 101R			P16-8 TB2-B2					.13 NO .25 NO			21 32					
B 101Y			P16-20 TB2-C2					.13 NO .25 NO			21 32					
B 102	8							1.75 1.25	1.50 1.00		68 68	29 29				
B 102A	12		SHLD B102 P16-19					.20 NO .13 NO			21					
B 102B	12		TB2-A1 SHLD B102					.25 NO .20 NO			32					
B 102R			P16-7 TB2-B1					.13 NO .25 NO			21 32					
B 102Y			P16-18 TB2-C1					.13 NO .25 NO			21 32					
B 103	8							1.75 1.25	1.50 1.00		68 68	29 29				
B 103A	12		SHLD B103 P16-29					.20 NO .13 NO			21					
B 103B	12		TB2-A4 SHLD B103					.25 NO .20 NO			32					
														SIZE A	CODE IDENT NO. 80230	6014507
														SCALE-NONE	REV LTR	R SHEET 37 OF 42

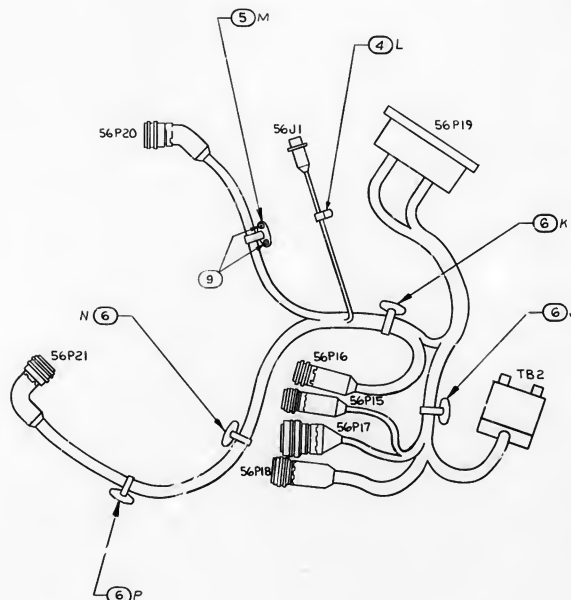


6014507

REV
LTH R

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. AND THE AMERICAN WELDED INSTITUTE OF BOILER AND SHIPBUILDING CONSTRUCTION, INC. UNLESS OTHERWISE SPECIFIED MATERIALS SHALL BE OF THE BEST QUALITY AVAILABLE AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.		MEIT INSTRUMENTATION LAB CHICAGO, ILL.		MANAGED SPACE CENTER HOUSTON, TEXAS	
		DRAWN BY <u>W. J. J. J. J.</u> CHECKED BY <u>W. J. J. J.</u> APPROVED BY <u>W. J. J. J.</u> DATE <u>1/1/71</u>		GIN INTERCONNECT HARDNESS (LEW)	
APPROVED BY <u>W. J. J. J.</u> DATE <u>1/1/71</u>		APPROVED BY <u>W. J. J. J.</u> DATE <u>1/1/71</u>		CODE IDENTIFIER 601450	
NEXT ASSY USED ON APPLICATION		APPROVED BY <u>W. J. J. J.</u> DATE <u>1/1/71</u>		SCALE 1/2" = 1'-0" SHEET 48 OF 48	

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. CONFIGURATION VIEW IS FOR REFERENCE ONLY, REPRESENTING HARNESS AS INSTALLED IN SPACECRAFT.
3. ALPHABETICAL CHARACTERS A, B, C, & ETC. ARE REFERENCE DESIGNATIONS APPLIED TO EACH CLAMP.
4. CLAMPS SHALL BE SELECTED FROM ITEM CALLED OUT AND AMP LOCATION AND INDIVIDUALLY IDENTIFIED WITH CORRESPONDING REFERENCE DESIGNATION.
5. HARNESS INSTALLATION: EACH CLAMP SHALL BE INSTALLED AT THE LOCATION REFERENCED ON THE CONFIGURATION VIEW.
6. ENDOR ITEM-SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7. INTERCONNECTED DIAGRAM FOR THIS DRAWING IS 6014311
8. WELD TAPE AROUND BUNDLE BENEATH CABLE, CLAMP AS REQUIRED TO IMPROVE FIT.



SEE NOTE B										21 1008937-005										TAP, ALUMINUM FOIL									
- - - - - AR										20 6010676										G&N INTERCONNECT HARNESS "A"									
- - - - -										19 6010675										G&N INTERCONNECT HARNESS "A"									
- - - - -										18 6010674										G&N INTERCONNECT HARNESS "A"									
- - - - -										17 6010678										G&N INTERCONNECT HARNESS "A"									
- - - - -										16 6010677										G&N INTERCONNECT HARNESS "A"									
- - - - -										15 6010673										G&N INTERCONNECT HARNESS "A"									
- - - - -										14 6010672										G&N INTERCONNECT HARNESS "A"									
- - - - -										13 6010670										G&N INTERCONNECT HARNESS "A"									
SEE NOTE B										12 MIL-T-23594										TAP, Teflon, TYPE II, "I" WIDE									
AR AR AR										11 6010660										G&N INTERCONNECT HARNESS "A"									
- - - - -										10 6010659										G&N INTERCONNECT HARNESS "A"									
9 9 9 9 9 9 9 9										9 MSK96-36										SCREW SOC "D"									
8 8 8 8 8 8 8 8										8 MS16386-10										SCREW SOC "D"									
4 4 4 4 4 4 4 4										4 MD400-136 THRU-13										CLAMP LOOP, HINGED									
6 6 6 6 6 6 6 6										6 MD400-1 THRU-12										CLAMP LOOP, HINGED									
1 1 1 1 1 1 1 1										5 MD400-349-2 THRU-6										CLAMP LOOP, HINGED									
1 1 1 1 1 1 1 1										4 MD10705-3 OR 4										CLAMP									
1 1 1 1 1 1 1 1										3 MS21045 C3										NUT SELF LOCKING									
1 1 1 1 1 1 1 1										2 MS161507										G&N INTERCONNECT HARNESS "B"									
1 1 1 1 1 1 1 1										1 6014506										G&N INTERCONNECT HARNESS "A"									
0B1 071 0B1										QUANTITY REQUIRED										PART OR IDENTIFYING NUMBER									
0										EFFECTIVE DATE										ITEM NO.									
0										ELECTRONIC SPECIFICATION										LIST OF PARTS AND MATERIALS									
0										UNLESS OTHERWISE SPECIFIED										AC ELECTRONIC SPECIFICATION									
0										TOLERANCES										GENERAL TOLERANCE CODE									
0										P & N 3 PLACE										FLYING GEOMETRIC									
0										SPECIALS DECIMALS ANGLES										FLYING GEOMETRIC									
0										N 3 PLACE										FLYING GEOMETRIC									
0										DECIMALS										FLYING GEOMETRIC									
0										APPROVED										G&N INTERCONNECT HARNESS GROUP (LEM)									
0										CONTRACT										N 95 3-437									
0										DATE										S&E									
0										APP. NO.										99974									
0										SCALE										6014515									
0										SHEET										1 OF 1									

APOLLO G & N
EQUIPMENT TEST
DATA SHEET 1 OF 5

JDC
NO. 05788
REV. C
INITIAL TDRR 35164

JOB CDU COUNTERS TEST

ASSEMBLY UNDER TEST			TEST HISTORY		
TITLE	DATE	START	END	SITE / LOCATION	
SER. NO.	DWG	REV.	TIME	START	END
				TOTAL ELAPSED	
MAJOR GROUND SUPPORT EQUIPMENT					
NAME			SER. NO.	CAL DATE	
NAME			SER. NO.	CAL DATE	
CONDUCTED BY			APPROVED BY		
NAME/AFFILIATION			NAME/AFFILIATION		

Step	Parameter	Specification	Results
20.	RG Indication	0011 111 111 111 111	
22.	RG Indication	1100 000 000 000 000	
24.	RG Indication	1100 000 000 000 001	
28.	RG Indication	1100 000 000 000 000	
49.	RG Indication	0011 111 111 111 110	
55.	RG Indication	0011 111 111 111 110	
63.	RG Indication	0011 111 111 111 100	
69.	RG Indication	0011 111 111 111 111	
91.	RG Indication	0011 111 111 111 111	
93.	RG Indication	1100 000 000 000 000	
95.	RG Indication	1100 000 000 000 001	
99.	RG Indication	1100 000 000 000 000	
120.	RG Indication	0011 111 111 111 110	
126.	RG Indication	0011 111 111 111 110	
134.	RG Indication	0011 111 111 111 100	

DATE 18 JAN 68

APOLLO G & N
EQUIPMENT TEST
DATA SHEET 2 OF 5

JDC
NO. 05788
REV. C

JOB CDU COUNTERS TEST

Step	Parameter	Specification	Results
140.	RG Indication	0011 111 111 111 111	
162.	RG Indication	0011 111 111 111 111	
164.	RG Indication	1100 000 000 000 000	
166.	RG Indication	1100 000 000 000 001	
179.	RG Indication	1100 000 000 000 000	
191.	RG Indication	0011 111 111 111 110	
197.	RG Indication	0011 111 111 111 110	
205.	RG Indication	0011 111 111 111 100	
211.	RG Indication	0011 111 111 111 111	
233.	RG Indication	0011 111 111 111 111	
235.	RG Indication	1100 000 000 000 000	
237.	RG Indication	1100 000 000 000 001	
241.	RG Indication	1100 000 000 000 000	
262.	RG Indication	0011 111 111 111 110	
268.	RG Indication	0011 111 111 111 110	
276.	RG Indication	0011 111 111 111 100	
282.	RG Indication	0011 111 111 111 111	
304.	RG Indication	0011 111 111 111 111	
306.	RG Indication	1100 000 000 000 000	
308.	RG Indication	1100 000 000 000 001	
312.	RG Indication	1100 000 000 000 000	
333.	RG Indication	0011 111 111 111 110	

DATE 18 JAN 68

APOLLO G & N
EQUIPMENT TEST
DATA SHEET 3 OF 5

JDC
NO. 05788
REV. C

JOB CDU COUNTERS TEST

Step	Parameter	Specification	Results
339.	RG Indication	0011 111 111 111 110	
347.	RG Indication	0011 111 111 111 100	
353.	RG Indication	0011 111 111 111 111	
373.	REG SEL Indication	1111 111 111 111 111	
385.	REG SEL Indication	1101 010 101 010 101	
397.	REG SEL Indication	0000 000 000 000 000	
416.	FREQUENCY COUNTER Display	1024	
426.	REG SEL Indication	BIT 16 is a "0"	
445.	FREQUENCY COUNTER Display	1024	
455.	REG SEL Indication	BIT 17 is a "0"	
467.	REG SEL Indication	1111 111 111 111 111	
479.	REG SEL Indication	1101 010 101 010 101	
491.	REG SEL Indication	0000 000 000 000 000	
510.	FREQUENCY COUNTER Display	1024	
520.	REG SEL Indication	BIT 14 is a "0"	
539.	FREQUENCY COUNTER Display	1024	
549.	REG SEL Indication	BIT 14 is a "0"	
561.	REG SEL Indication	1111 111 111 111 111	
573.	REG SEL Indication	1101 010 101 010 101	
585.	REG SEL Indication	0000 000 000 000 000	

DATE 18 JAN 68

APOLLO G & N
EQUIPMENT TEST
DATA SHEET 4 OF 5

JDC
NO. 05788
REV. C

JOB CDU COUNTERS TEST

Step	Parameter	Specification	Results
604.	FREQUENCY COUNTER Display	1024	
614.	REG SEL Indication	BIT 13 is a "0"	
633.	FREQUENCY COUNTER Display	1024	
643.	REG SEL Indication	BIT 13 is a "0"	
657.	REG SEL Indication	1111 111 111 111 111	
669.	REG SEL Indication	1101 010 101 010 101	
681.	REG SEL Indication	0000 000 000 000 000	
702.	FREQUENCY COUNTER Display	1024	
712.	REG SEL Indication	BIT 12 is a "0"	
732.	FREQUENCY COUNTER Display	1024	
742.	REG SEL Indication	BIT 12 is a "0"	
754.	REG SEL Indication	1111 111 111 111 111	
766.	REG SEL Indication	1101 010 101 010 101	
778.	REG SEL Indication	0000 000 000 000 000	
799.	FREQUENCY COUNTER Display	1024	
809.	REG SEL Indication	BIT 11 is a "0"	
830.	FREQUENCY COUNTER Display	1024	
840.	REG SEL Indication	BIT 11 is a "0"	

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